

Best Local Similarity 100.0%; Pred. No. 8.9e-60; Mismatches 0; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MSLPPRAPPVSMRLAALALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
1 MSLPPRAPPVSMRLAALALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
61 PHCEKXWIIITTSVSRVGRQEHCLHPKLOSTKRFIKYNANWKEKRYVEE 111
61 PHCEKXWIIITTSVSRVGRQEHCLHPKLOSTKRFIKYNANWKEKRYVEE 111

RESULT 3
AAB33423
ID AAB33423 standard; protein; 111 AA.
AC AAB33423;
DT 29-JAN-2001 (first entry)
DE Human PRO273 protein UNQ240 SEQ ID NO:46.
KW Human; immune related disease; diagnosis; antiinflammatory; cardiant;
KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
KW haemostatic; antithyroid; antidiabetic; antipsoriatic; neuroprotective;
KW antianemic; hepatotropic; virucide; antiparasitic; antiallergic;
KW osteoarthritis; systemic lupus erythematosus; rheumatoid arthritis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; sarcoidosis;
KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
KW autoimmune thrombocytopenia; immune-mediated renal disease;
KW demyelinating disease; hepatobiliary disease; Whipple's disease;
KW inflammatory bowel disease; gluten-sensitive enteropathy;
KW autoimmune disease; immune-mediated skin disease; allergic disease;
KW immunological disease; transplantation associated disease;
KW graft rejection; graft-versus-host-disease.

OS Homo sapiens.
XX
XX WO2000053758-A2.
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XX PD 14-SEP-2000.
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XX PF 02-MAR-2000; 2000WO-US005841.
XX
XX PR 08-MAR-1999; 99WO-US005028.
XX PR 10-MAR-1999; 99US-0123618P.
XX PR 12-MAR-1999; 99US-0123957P.
XX PR 23-MAR-1999; 99US-0125775P.
XX PR 12-APR-1999; 99US-0128849P.
XX PR 20-APR-1999; 99WO-US008615.
XX PR 28-APR-1999; 99US-0131445P.
XX PR 04-MAY-1999; 99US-0132371P.
XX PR 14-MAY-1999; 99US-0134287P.
XX PR 02-JUN-1999; 99WO-US012252.
XX PR 23-JUN-1999; 99US-0141037P.
XX PR 20-JUL-1999; 99US-0144758P.
XX PR 26-JUL-1999; 99US-0145698P.
XX PR 28-JUL-1999; 99US-0146222P.
XX PR 01-SEP-1999; 99WO-US020111.
XX PR 13-SEP-1999; 99WO-US020594.
XX PR 18-SEP-1999; 99WO-US020944.
XX PR 15-SEP-1999; 99WO-US021090.
XX PR 05-OCT-1999; 99WO-US021547.
XX PR 29-OCT-1999; 99US-0162506P.
XX PR 29-OCT-1999; 99WO-US028214.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 30-NOV-1999; 99WO-US028409.
XX PR 01-DEC-1999; 99WO-US028301.
XX PR 01-DEC-1999; 99WO-US028634.
XX PR 02-DEC-1999; 99WO-US028551.
XX PR 02-DEC-1999; 99WO-US028564.

02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030999.
30-DEC-1999; 99WO-US031274.
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000277.
06-JAN-2000; 2000WO-US000376.
11-FEB-2000; 2000WO-US0003565.
18-FEB-2000; 2000WO-US004341.
18-FEB-2000; 2000WO-US004342.
22-FEB-2000; 2000WO-US004414.
(GETH) GENENTECH INC.
PA Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
XX WPI; 2000-572271/53.
DR N-PSDE; AAC58598.
XX
XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX
XX Claim 33; Fig 20; 309pp; English.
XX
XX The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58597 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention
XX
XX Sequence 111 AA;

Query Match 100.0%; Score 587; DB 3; Length 111;
Best Local Similarity 100.0%; Pred. No. 8.9e-60;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MSLPPRAPPVSMRLAALALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
1 MSLPPRAPPVSMRLAALALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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61 PHCEKXWIIITTSVSRVGRQEHCLHPKLOSTKRFIKYNANWKEKRYVEE 111

RESULT 4
AAB44295
ID AAB44295 standard; protein; 111 AA.
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XX AC AAB44295;
XX
XX DT 08-FEB-2001 (first entry)
XX
XX DE Human PRO273 (UNQ240) protein sequence SEQ ID NO:370.
XX
XX KW Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;

APPLICANT: Su, Jeffrey Y.
 APPLICANT: Li, Haodong
 TITLE OF INVENTION: Chemokine Alpha 2
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kesaler, Goldstein & Fox, P.L.L.C.
 STREET: 1100 New York Ave., Suite 600
 CITY: Washington

STATE: DC
COUNTRY: USA
ZIP: 20005-2934
COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

SOFTWARE: PatentIn Release #1.0, Version #1.30

APPLICATION NUMBER: US/08/825,556A

CLASSIFICATION: 435

APPLICATION NUMBER: US 60/013,653

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: 36,688

TELECOMMUNICATION INFORMATION:

TELEFAX: 202-371-2540

SEQUENCE CHARACTERISTICS:

TYPE: nucleic acid

TOPOLOGY: both

FEATURE:

LOCATION: 43.375

[illegible]

FEATURE:

LOCATION: 43.126

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LOCATION: 79.126

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was plotted against the number of trials for each condition. The number of correct responses increased with the number of trials for all conditions. The number of correct responses was highest for the condition with the highest number of trials (10 trials) and lowest for the condition with the lowest number of trials (2 trials).

t Local Similarity 98.7%; Pred. No. 4.9e-93;

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DB 246 TATCATCACCAAGAGCGGTCTCAGGTACCGAGGTGAGGCGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCACCAGCGGCTTCATCAAGTGTGTACAAAGCGCTGGAACGAGAAGCGCAGGT 489
DB 306 GCTGCAGAGCACCAGCGGCTTCATCAAGTGTGTACAAAGCGCTGGAACGAGAAGCGCAGGT 365
QY 490 CTACGAGAATAGGTGTAACCACTCAGAGGGAACCTCCAAACCACTGGGAGACTTG 549
DB 366 CTACGAGAATAGGTGTAACCACTCAGAGGGAACCTCCAAACCACTGGGAGACTTG 425
QY 550 TG--CAAGGACTTTCAGATTAAAAA 583
DB 426 TGGCAAGGACTTTCAGATTAAAAA 461

RESULT 11
US-09-238-184-1
; Sequence 1, Application US/09238184
; Patent No. 6473633
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steife, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 43...375
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 79...375
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 43...126

FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 127...375
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 79...126
US-09-238-184-1
Query Match 25.9%; Score 435.6; DB 4; Length 461;
Best Local Similarity 98.7%; Pred. No. 4.9e-93;
Matches 450; Conservative 0; Mismatches 4; Indels 2; Gaps 1;
QY 130 CTCGGGCGCGCGCTCCGACGGGCGAGCGGCTCCCATGTCTCCATGTCTCCACCGCGGC 189
DB 6 CTCGGGCGCGCGCTCCGACGGGCGAGCGGCTCCCATGTCTCCATGTCTCCACCGCGGC 65
QY 150 CCCTCCGCTCAGCATGAGGCTCTTGGGCGCGCGCTCTCTGTCTGTCTGGCGCTGTA 249
DB 66 CCCTCCGCTCAGCATGAGGCTCTTGGGCGCGCGCTCTCTGTCTGTCTGGCGCTGTA 125
QY 250 CACCGCGCTGTGACCGGCTCCAAATGCAAGTGTCTCCGGAAGGAGCCCAAGATCCGCTA 309
DB 126 CACCGCGCTGTGACCGGCTCCAAATGCAAGTGTCTCCGGAAGGAGCCCAAGATCCGCTA 185
QY 310 CAGCGAGTGAAGAGCTGGAATGAAAGCCAAAGTACCCGCACTCCGAGGAGAAAGATGGT 369
DB 186 CAGCGAGTGAAGAGCTGGAATGAAAGCCAAAGTACCCGCACTCCGAGGAGAAAGATGGT 245
QY 370 TATCATCACCAAGAGCGGTCTCAGGTACCGAGGTGAGGAGCACTGCTGCACCCCAA 429
DB 246 TATCATCACCAAGAGCGGTCTCAGGTACCGAGGTGAGGAGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCACCAGCGCTTCATCAAGTGTGTACAAAGCGCTGGAACGAGAAGCGCAGGT 489
DB 306 GCTGCAGAGCACCAGCGCTTCATCAAGTGTGTACAAAGCGCTGGAACGAGAAGCGCAGGT 365
QY 490 CTACGAGAATAGGTGTAACCACTCAGAGGGAACCTCCAAACCACTGGGAGACTTG 549
DB 366 CTACGAGAATAGGTGTAACCACTCAGAGGGAACCTCCAAACCACTGGGAGACTTG 425
QY 550 TG--CAAGGACTTTCAGATTAAAAA 583
DB 426 TGGCAAGGACTTTCAGATTAAAAA 461

RESULT 12
US-09-188-930-38
; Sequence 38, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 766
; TYPE: DNA
; ORGANISM: mouse
US-09-188-930-38
Query Match 25.3%; Score 426; DB 3; Length 766;
Best Local Similarity 79.5%; Pred. No. 1.1e-90;
Matches 606; Conservative 0; Mismatches 115; Indels 41; Gaps 7;
QY 11 GCGCAGAGCGCAGCGCACCGGCACAGACAGCCCTGGGATCCACCGCGCGCAGCCGGA 70

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:31:18 : Search time 22 seconds
(without alignments)
260.476 Million cell updates/sec

Title: US-09-978-189-370
Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLIAAL.....TKRIKYNWNEKRVIEE 111

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/prodata/2/iaa/5B_COMB.pep:*
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5: /cgn2_6/prodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	582	99.1	111	2	US-08-825-556A-2
2	582	99.1	111	4	US-09-238-184-2
3	522	88.9	99	2	US-08-825-556A-3
4	522	88.9	99	4	US-09-238-184-3
5	509	86.7	95	3	US-09-188-930-344
6	509	86.7	95	4	US-09-724-864-68
7	509	86.7	95	4	US-09-312-283C-344
8	506	86.2	99	3	US-09-188-930-340
9	506	86.2	99	4	US-09-312-283C-340
10	506	86.2	99	4	US-09-312-283C-394
11	506	86.2	99	4	US-09-312-283C-417
12	504.5	85.9	98	4	US-09-312-283C-418
13	428	72.9	77	3	US-09-188-930-346
14	428	72.9	77	4	US-09-724-864-72
15	428	72.9	77	4	US-09-312-283C-346
16	424	72.2	77	3	US-09-188-930-345
17	424	72.2	77	4	US-09-724-864-70
18	424	72.2	77	4	US-09-312-283C-345
19	414	70.5	75	4	US-09-177-304-3
20	298	50.8	133	3	US-09-188-930-157
21	298	50.8	133	4	US-09-312-283C-157
22	143.5	24.4	98	2	US-08-825-556A-4
23	143.5	24.4	98	4	US-09-238-184-4
24	143.5	24.4	100	4	US-08-679-493A-146
25	138	23.5	100	3	US-08-476-376-2
26	138	23.5	100	4	US-09-312-283C-423
27	128.5	21.9	107	1	US-08-352-324A-4

28	128.5	21.9	107	2	US-08-862-607-4	Sequence 4, Appli
29	128.5	21.9	107	2	US-08-468-819-6	Sequence 6, Appli
30	128.5	21.9	107	3	US-09-203-235-4	Sequence 4, Appli
31	128.5	21.9	107	4	US-09-213-383-6	Sequence 6, Appli
32	128.5	21.9	107	5	PCT-US95-16144-4	Sequence 4, Appli
33	117.5	20.0	107	1	US-08-352-324A-7	Sequence 7, Appli
34	117.5	20.0	107	2	US-08-862-607-7	Sequence 5, Appli
35	117.5	20.0	107	2	US-08-468-819-5	Sequence 7, Appli
36	117.5	20.0	107	3	US-09-203-235-7	Sequence 5, Appli
37	117.5	20.0	107	4	US-09-213-383-5	Sequence 7, Appli
38	117.5	20.0	107	5	PCT-US95-16144-7	Sequence 7, Appli
39	113	19.3	71	2	US-08-812-003-9	Sequence 9, Appli
40	111	18.9	96	4	US-08-649-006A-7	Sequence 7, Appli
41	111	18.9	96	4	US-09-771-023-9	Sequence 9, Appli
42	111	18.9	96	4	US-09-312-283C-424	Sequence 424, App
43	109	18.6	106	4	US-08-679-493A-148	Sequence 148, App
44	107	18.2	106	1	US-08-352-324A-5	Sequence 5, Appli
45	107	18.2	106	2	US-08-862-607-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-08-825-556A-2
: Sequence 2, Application US/08825556A
: Patent No. 5910431
: GENERAL INFORMATION:
: APPLICANT: Ni, Jian
: APPLICANT: Gentz, Reiner L.
: APPLICANT: Su, Jeffrey Y.
: APPLICANT: Li, Haodong
: TITLE OF INVENTION: Chemokine Alpha 2
: NUMBER OF SEQUENCES: 10
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Sterns, Kessler, Goldstein & Fox, P.L.L.C.
: STREET: 1100 New York Ave., Suite 600
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20005-2934
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/825,556A
: FILING DATE: 19-MAR-1997
: CLASSIFICATION: 435
: PRIOR APPLICATION NUMBER: US 60/013,653
: FILING DATE: 19-MAR-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Steffe, Eric K.
: REGISTRATION NUMBER: 36,688
: REFERENCE/DOCKET NUMBER: 1488.0850001
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-371-2600
: TELEFAX: 202-371-2540
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 111 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-825-556A-2

Query Match 99.1%; Score 582; DB 2; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSLLPRAPPVSMRLIAALLLLLLALYATRVDSKCKCKSGKPKIRYSPVKLEMKPKY 60

Db 1 MSLLPRAPVSNLLAALLLLALLALYARVDGSKCKSRGPKIRYSDVKLEWPKY 60
QY 61 PHCEKRWIITKSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111
Db 61 PHCEKRWIITKSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111

RESULT 2

US-09-238-184-2
Sequence 2, Application US/09238184
Patent No. 6479633

GENERAL INFORMATION:

APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/238,184
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/825,556
FILING DATE: 19-MAR-1997
APPLICATION NUMBER: US 60/013,653
FILING DATE: 19-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0850001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Protein

US-09-238-184-2

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLLPRAPVSNLLAALLLLALLALYARVDGSKCKSRGPKIRYSDVKLEWPKY 60
Db 1 MSLLPRAPVSNLLAALLLLALLALYARVDGSKCKSRGPKIRYSDVKLEWPKY 60
QY 61 PHCEKRWIITKSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111
Db 61 PHCEKRWIITKSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111

RESULT 3

US-08-825-556A-3
Sequence 3, Application US/08025556A
Patent No. 5910431

GENERAL INFORMATION:

APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/825,556A
FILING DATE: 19-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/013,653
FILING DATE: 19-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0850001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 99 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-825-556A-3

Query Match 88.9%; Score 522; DB 2; Length 99;
Best Local Similarity 99.0%; Pred. No. 2.6e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 MRLLAALLLLALLALYARVDGSKCKSRGPKIRYSDVKLEWPKYPHCEKRWIIT 72
Db 1 MRLLAALLLLALLALYARVDGSKCKSRGPKIRYSDVKLEWPKYPHCEKRWIIT 60
QY 73 KSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111
Db 61 KSVSRVGRQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 99

RESULT 4

US-09-238-184-3
Sequence 3, Application US/09238184
Patent No. 6479633

GENERAL INFORMATION:

APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 22, 2004, 12:29:47 ; Search time 40 Seconds
(without alignments)
875.563 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLAAL.....TKRFKYNAMNEKRVVEE 111

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPTEMBL 25:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phase:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	582	99.1	111	4 Q9NS21	Q9NS21 homo sapien
2	507	86.4	99	11 Q8K453	Q8K453 rattus norv
3	506	86.2	99	11 Q9JH7	Q9JH7 mus musculu
4	488	83.1	95	11 Q91V02	Q91V02 mus musculu
5	335	57.1	100	13 Q9DFG4	Q9DFG4 brachydanio
6	322.5	54.9	98	13 Q9DGL8	Q9DGL8 gallus gall
7	143.5	24.4	101	11 Q9EP62	Q9EP62 rattus norv
8	128.5	21.9	108	6 Q28724	Q28724 oryctolagus
9	128	21.8	100	11 Q91ZK9	Q91ZK9 sigmodon hi
10	126.5	21.6	101	11 Q91Z64	Q91Z64 sigmodon hi
11	121.5	20.7	107	6 Q8HX24	Q8HX24 macaca mula
12	119.5	20.4	107	6 Q8HX23	Q8HX23 macaca mula
13	100	17.0	95	13 Q7T0B3	Q7T0B3 ictalurus p
14	97.5	16.6	97	13 Q98T02	Q98T02 oncorhynch
15	94.5	16.1	97	13 Q7SX73	Q7SX73 oncorhynch
16	94.5	16.1	113	6 Q6MIN2	Q6MIN2 equus cabal

17	93.5	15.9	126	11	Q99J60	Q99J60 mus musculu
18	89.5	15.2	97	13	Q8QFP5	Q8QFP5 cyprinus ca
19	89.5	15.2	100	13	Q8AXP4	Q8AXP4 chimaera ph
20	89.5	15.2	126	11	Q8C9J0	Q8C9J0 mus musculu
21	89	15.2	95	13	Q7T0B4	Q7T0B4 ictalurus p
22	89	15.2	113	11	Q9EQ15	Q9EQ15 mus musculu
23	88	15.0	95	13	Q7T0B2	Q7T0B2 ictalurus f
24	88	15.0	109	13	Q90Y59	Q90Y59 parichthys
25	87.5	14.9	111	11	Q99ME0	Q99ME0 rattus norv
26	87	14.8	98	13	Q8QGV8	Q8QGV8 parichthys
27	86.5	14.7	104	13	Q73912	Q73912 gallus gall
28	86	14.7	93	13	Q9PTF8	Q9PTF8 brachydanio
29	84.5	14.4	116	11	Q91ZB2	Q91ZB2 mus musculu
30	84.5	14.4	117	11	Q8C9B8	Q8C9B8 mus musculu
31	83.5	14.2	102	6	Q95MZ7	Q95MZ7 ovis aries
32	83.5	14.2	102	6	Q867B3	Q867B3 capra hircu
33	83.5	14.2	117	12	Q68398	Q68398 human cytom
34	83	14.1	94	6	Q8M1Z0	Q8M1Z0 macaca mula
35	81.5	13.9	101	13	Q8UW91	Q8UW91 triakis scy
36	80.5	13.7	98	6	Q8M1Z1	Q8M1Z1 macaca mula
37	80.5	13.7	98	6	Q865F5	Q865F5 macaca neme
38	79.5	13.5	101	6	Q7YR55	Q7YR55 tursiops tr
39	77.5	13.2	100	13	Q8QGB7	Q8QGB7 oncorhynch
40	77.5	13.2	125	11	Q8K4B1	Q8K4B1 rattus norv
41	77	13.1	111	13	Q8AXZ1	Q8AXZ1 ictalurus p
42	76.5	13.0	59	6	Q62764	Q62764 equus cabal
43	76	12.9	98	11	Q9EB31	Q9EB31 mesocricetu
44	76	12.9	98	13	Q7T1P1	Q7T1P1 cyprinus ca
45	76	12.9	677	5	Q18209	Q18209 caenorhabdi

ALIGNMENTS

RESULT 1

Q9NS21 PRELIMINARY; PRT; 111 AA.
AC Q9NS21; DT 01-OCT-2000 (TRENBLrel. 15, Created)
DT 01-OCT-2000 (TRENBLrel. 15, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Chemokine MIP-2 gamma.
GN MIP-2 GAMMA.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20405642; PubMed=10946286;
RA Cao X., Zhang W., Wan T., He L., Chen T., Yuan Z., Ma S., Yu Y.,
Chen G.;
RT "Molecular cloning and characterization of a novel CXCR chemokine
macrophage inflammatory protein-2gamma chemoattractant for human
neutrophils and dendritic cells."
RL J. Immunol. 165:2588-2595(2000).
DR EMBL; AF106911; AAF78449.1; -
DR PIR; JG0182; JG0182.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0008955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
SQ SEQUENCE 111 AA; 13126 MW; C9A18B3178CACF74 CRC64;

Query Match 99.1%; Score 582; DB 4; Length 111;

Best Local Similarity 99.1%; Pred. No. 1e-58; Indels 0; Gaps 0;

Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLLPRAPPVSMRLAALLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60

Db 1 MSLLPRAPPVSMRLAALLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60

QY 61 PHCEKXWIIITKSVRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 111
DB 61 PHCEKXWIIITKSVRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 111

RESULT 2
Q8K453 PRELIMINARY; PRT; 99 AA.
AC Q8K453;
DT 01-OCT-2002 (Tremblrel. 22, Created)
DT 01-OCT-2002 (Tremblrel. 22, Last sequence update)
DT 01-JUN-2003 (Tremblrel. 24, Last annotation update)
DE BRAK.

OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar;
RA Han G.D., Koike H., Shimizu F., Kawachi H.;
RT "Rat homolog of breast and kidney";
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
DR ENBL, A2489348; AM74057.1;
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
SQ SEQUENCE 99 AA; 11730 MW; 972C06336C7F46D6 CRC64;

Query Match 86.4%; Score 507; DB 11; Length 99;
Best Local Similarity 96.0%; Pred. No. 3.4e-50;
Matches 95; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAALALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKYPHCEKXWIIIT 72
DB 1 MRLAALALLLLALCASRDGSKCKSRGPKIRYSDVKLEMPKYPHCEKXWIIIT 60

QY 73 KSVRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 111
DB 61 KSMRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 99

RESULT 3
Q9JHH7 PRELIMINARY; PRT; 99 AA.
AC Q9JHH7;
DT 01-OCT-2000 (Tremblrel. 15, Created)
DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)
DT 01-JUN-2003 (Tremblrel. 24, Last annotation update)
DE B cell and monocyte-activating chemokine precursor (Brain cDNA, clone
DE MNCb-6413, similar to Mus musculus kidney-expressed chemokine CXCL14 or SCYB14 or BMAC or 1200006123RIK.
DE subfamily B).
GN Mus musculus (Mouse).
OS Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/CBYJ;
RA Sleeman M.A., Fraser J.K., Murison J.G., Kelly S.L., Prestidge R.,
RA Watson J.D., Kumble K.D.;
RT "B cell and monocyte-activating chemokine (BMAC), a novel non-ELR
RT alpha chemokine";
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL;
RA Osada N., Kusuda J., Tanuma R., Ito A., Hirata M., Sugano S.,
RA Hashimoto K.;

"isolation of full-length cDNA clones from mouse brain cDNA library
made by oligo-capping method.";
Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
[3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryo, and Lung;
RC MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamakata I.,
RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirli L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Body;
RC MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs";
RL Nature 420:563-573(2002).
DR ENBL; AF144754; AAF66694.1; -;
DR ENBL; AB041614; BA95097.1; -;
DR ENBL; AK014351; BA29292.1; -;
DR ENBL; AK004615; BA23411.1; -;
DR ENBL; AK076112; BAC36192.1; -;
DR MGD; MGI:1888514; Cxcl14.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
KW Signal.
FT SIGNAL 1 23 POTENTIAL.
FT CHAIN 24 99 B CELL AND MONOCYTE-ACTIVATING
FT CHEMOKINE.
SQ SEQUENCE 99 AA; 11716 MW; 97352E91FF7F46D6 CRC64;

Query Match 86.2%; Score 506; DB 11; Length 99;
Best Local Similarity 94.9%; Pred. No. 4.4e-50;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAALALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKYPHCEKXWIIIT 72
DB 1 MRLAALALLLLALCASRDGSKCKSRGPKIRYSDVKLEMPKYPHCEKXWIIIT 60

QY 73 KSVRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 111
DB 61 KSMRYGQEHCHLPKLOSTKRFKIKYNAWNEKRRVYEE 99

RESULT 4
Q91V02 PRELIMINARY; PRT; 95 AA.
ID Q91V02;
AC Q91V02;
DT 01-DEC-2001 (Tremblrel. 19, Created)
DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)
DT 01-JUN-2003 (Tremblrel. 24, Last annotation update)

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QY 370 TATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACAGAGCACTGCTGCACCCCAA 429
DB 246 TATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACAGAGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCAACCAAGCGCTTCATCAAGTGTGTACCAAGCTTGAACGAGAGCGCAGGGT 489
DB 306 GCTGCAGAGCAACCAAGCGCTTCATCAAGTGTGTACCAAGCTTGAACGAGAGCGCAGGGT 365
QY 490 CTACGAGAGTGGTGAAGAACTCTCAGAGGGGAAACTCCAAACCAAGTTGGGAGACTTG 549
DB 366 CTACGAGAGTGGTGAAGAACTCTCAGAGGGGAAACTCCAAACCAAGTTGGGAGACTTG 425
QY 550 TG--CAAGAGACTTTGCAGATTAAAAAAGGAAAAA 583
DB 426 TGGCAAGAGAACTTTGCAGATTAAAAAAGGAAAAA 461

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RESULT 11
US-09-238-184-1
; Sequence 1, Application US/09238184
; Patent No. 6479633
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Steine, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: both
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 43..375
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 79..375
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 43..126

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; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 127..375
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; NAME/KEY: sig_peptide
; LOCATION: 79..126
US-09-238-184-1

Query Match 25.9%; Score 435.6; DB 4; Length 461;
Best Local Similarity 98.7%; Pred. No. 4.9e-93;
Matches 450; Conservative 0; Mismatches 4; Indels 2; Gaps 1;

QY 130 CTCGGGGCGCGCGCTCCGACGGCGCCCTCCCATGTCCCTGCTCCACACGGCGCGC 189
DB 6 CTCGGGGCGCGCGCTCCGACGGCGCCCTCCCATGTCCCTGCTCCACACGGCGCGC 65
QY 190 CCCTCCGCTCAGCATGAGGCTCTCTGGCGCGCGCTCTCTGCTGCTGCTGCTGTA 249
DB 66 CCCTCCGCTCAGCATGAGGCTCTCTGGCGCGCGCTCTCTGCTGCTGCTGCTGTA 125
QY 250 CACCGCGGTGTGGACGGGTCCCAATGCAAGTGTCTCCGGAAGGACCCAAAGATCCGCTA 309
DB 126 CACCGCGGTGTGGACGGGTCCCAATGCAAGTGTCTCCGGAAGGACCCAAAGATCCGCTA 185
QY 310 CAGCGACGTGAAGAAGCTTGAATAAGAACCCAAAGTACCCGCACTCGAGAGGAAGATGGT 369
DB 186 CAGCGACGTGAAGAAGCTTGAATAAGAACCCAAAGTACCCGCACTCGAGAGGAAGATGGT 245
QY 370 TATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACAGAGCACTGCTGCACCCCAA 429
DB 246 TATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACAGAGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCAACCAAGCGCTTCATCAAGTGTGTACCAAGCTTGGAAACGAGCGAGGT 489
DB 306 GCTGCAGAGCAACCAAGCGCTTCATCAAGTGTGTACCAAGCTTGGAAACGAGCGAGGT 365
QY 490 CTACGAGAGTGGTGAAGAACTCTCAGAGGGGAAACTCCAAACCAAGTTGGGAGACTTG 549
DB 366 CTACGAGAGTGGTGAAGAACTCTCAGAGGGGAAACTCCAAACCAAGTTGGGAGACTTG 425
QY 550 TG--CAAGAGACTTTGCAGATTAAAAAAGGAAAAA 583
DB 426 TGGCAAGAGAACTTTGCAGATTAAAAAAGGAAAAA 461

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RESULT 12
US-09-188-930-38
; Sequence 38, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sileman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 766
; TYPE: DNA
; ORGANISM: mouse
US-09-188-930-38

Query Match 25.3%; Score 426; DB 3; Length 766;
Best Local Similarity 79.5%; Pred. No. 1.1e-90;
Matches 606; Conservative 0; Mismatches 115; Indels 41; Gaps 7;

QY 11 GCGCAGAGCGCAGCGCACGCGCCACAGACAGACGCTGGGCATCCACGCGGCGCAGCCGGA 70

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:31:18 ; Search time 22 Seconds
(without alignments)
260.476 Million cell updates/sec

Title: US-09-978-189-370
Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLAAAL.....TKRFKYNANKEKRVYEE 111

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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5: /cgm2_6/ptodata/2/iaa/PTCUS_COMB.pep.*
6: /cgm2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	582	99.1	111	2	US-08-825-556A-2
2	582	99.1	111	4	US-09-238-184-2
3	522	88.9	99	2	US-08-825-556A-3
4	522	88.9	99	4	US-09-238-184-3
5	509	86.7	95	3	US-09-188-930-344
6	509	86.7	95	4	US-09-188-930-344
7	509	86.7	95	4	US-09-724-864-68
8	506	86.2	99	3	US-09-312-283C-344
9	506	86.2	99	4	US-09-188-930-340
10	506	86.2	99	4	US-09-312-283C-340
11	506	86.2	99	4	US-09-312-283C-394
12	504.5	85.9	98	4	US-09-312-283C-417
13	428	72.9	77	3	US-09-312-283C-418
14	428	72.9	77	4	US-09-188-930-346
15	428	72.9	77	4	US-09-724-864-72
16	424	72.2	77	3	US-09-312-283C-346
17	424	72.2	77	3	US-09-188-930-345
18	424	72.2	77	4	US-09-724-864-70
19	414	70.5	75	4	US-09-312-283C-345
20	298	50.8	133	3	US-09-177-304-3
21	298	50.8	133	3	US-09-188-930-157
22	143.5	24.4	98	2	US-09-312-283C-157
23	143.5	24.4	98	4	US-08-825-556A-4
24	143.5	24.4	100	4	US-09-238-184-4
25	138	23.5	100	3	US-08-679-493A-146
26	138	23.5	100	4	US-08-476-376-2
27	128.5	21.9	107	1	US-09-312-283C-423
				1	US-08-352-324A-4

28	128.5	21.9	107	2	US-08-862-607-4	Sequence 4, Appli
29	128.5	21.9	107	2	US-08-468-819-6	Sequence 6, Appli
30	128.5	21.9	107	3	US-09-203-235-4	Sequence 4, Appli
31	128.5	21.9	107	4	US-09-203-235-4	Sequence 6, Appli
32	128.5	21.9	107	5	PCT-US95-16144-4	Sequence 4, Appli
33	117.5	20.0	107	1	US-08-352-324A-7	Sequence 7, Appli
34	117.5	20.0	107	2	US-08-862-607-7	Sequence 7, Appli
35	117.5	20.0	107	2	US-08-468-819-5	Sequence 5, Appli
36	117.5	20.0	107	3	US-09-203-235-7	Sequence 7, Appli
37	117.5	20.0	107	4	US-09-203-235-7	Sequence 5, Appli
38	117.5	20.0	107	5	PCT-US95-16144-7	Sequence 9, Appli
39	113	19.3	71	2	US-08-812-003-9	Sequence 9, Appli
40	111	18.9	96	4	US-09-771-023-9	Sequence 7, Appli
41	111	18.9	96	4	US-09-312-283C-424	Sequence 148, App
42	109	18.6	106	4	US-08-679-493A-148	Sequence 5, Appli
43	107	18.2	106	1	US-08-352-324A-5	Sequence 5, Appli
44	107	18.2	106	2	US-08-862-607-5	Sequence 5, Appli
45	107	18.2	106	2	US-08-862-607-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-08-825-556A-2
; Sequence 2, Application US/08825556A
; Patent No. 5910431
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556A
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-825-556A-2

Query Match 99.1%; Score 582; DB 2; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
1 MSLLPRAPPVSMRLAAALLLLLLYTARVDGSKCKSRKGPKNYSVDVKLEMKPKY 60

Db 1 MSLLPAPPVSMILLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
QY 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111
Db 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111

Se.
Jo

RESULT 2
US-09-238-184-2
Sequence 2, Application US/09238184
Patent No. 6479633
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/238,184
FILING DATE: 19-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/013,653
FILING DATE: 19-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0850001
TELEPHONE: 202-371-2540
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 2:
LENGTH: 111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-238-184-2

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSLLPAPPVSMILLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
Db 1 MSLLPAPPVSMILLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
QY 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111
Db 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111

RESULT 3
US-08-825-556A-3
Sequence 3, Application US/08825556A
Patent No. 5910431
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/825,556A
FILING DATE: 19-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/013,653
FILING DATE: 19-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0850001
TELEPHONE: 202-371-2540
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 3:
LENGTH: 99 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-825-556A-3

Query Match 88.9%; Score 522; DB 2; Length 99;
Best Local Similarity 99.0%; Pred. No. 2.6e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 13 MRLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPCHEKKNVIT 72
Db 1 MRLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPCHEKKNVIT 60

QY 73 KSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111
Db 61 KSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 99

RESULT 4
US-09-238-184-3
Sequence 3, Application US/09238184
Patent No. 6479633
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSLLPAPPVSMILLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
Db 1 MSLLPAPPVSMILLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
QY 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111
Db 61 PCEBEMVITTKSVSRVGOEHLHPKLOSTKRFKWNANNEKRVYEE 111

RESULT 3
US-08-825-556A-3
Sequence 3, Application US/08825556A
Patent No. 5910431
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Gentz, Reiner L.
APPLICANT: Su, Jeffrey Y.
APPLICANT: Li, Haodong
TITLE OF INVENTION: Chemokine Alpha 2
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
STREET: 1100 New York Ave., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-2934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:29:47 ; Search time 40 Seconds
(without alignments)
875.563 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587

Sequence: 1 MSLLPRAPPVSMRLAAL.....TKRFKYNWAKERYEE 111

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTREMBL_25.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_organelle.*
- 9: sp_phase.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_virus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	582	99.1	111	4 Q9NS21	Q9NS21 homo sapien
2	507	86.4	99	11 Q8K453	Q8K453 rattus norv
3	506	86.2	99	11 Q9JHH7	Q9JHH7 mus musculo
4	488	83.1	95	11 Q9IV02	Q9IV02 mus musculo
5	335	57.1	100	13 Q9DFG4	Q9DFG4 brachydanio
6	322.5	54.9	98	13 Q9DGL8	Q9DGL8 gallus gall
7	143.5	24.4	101	11 Q9EP62	Q9EP62 rattus norv
8	128.5	21.9	108	6 Q28724	Q28724 oryctolagus
9	128	21.8	100	11 Q91ZK9	Q91ZK9 sigmodon hi
10	126.5	21.6	101	11 Q91Z64	Q91Z64 sigmodon hi
11	121.5	20.7	107	6 Q8HXZ4	Q8HXZ4 macaca mula
12	119.5	20.4	107	6 Q8HXZ3	Q8HXZ3 macaca mula
13	100	17.0	95	13 Q7T0B3	Q7T0B3 ictalurus p
14	97.5	16.6	97	13 Q98TQ2	Q98TQ2 oncorhynch
15	94.5	16.1	97	13 Q7SX73	Q7SX73 oncorhynch
16	94.5	16.1	113	6 Q8MIN2	Q8MIN2 equus cabal

17 93.5 15.9 126 11 Q9J60 mus musculo
18 89.5 15.2 126 11 Q9J60 mus musculo
19 89.5 15.2 126 11 Q9J60 mus musculo
20 89.5 15.2 126 11 Q9J60 mus musculo
21 89 15.2 126 11 Q9J60 mus musculo
22 89 15.2 126 11 Q9J60 mus musculo
23 88 15.0 126 11 Q9J60 mus musculo
24 88 15.0 126 11 Q9J60 mus musculo
25 87.5 14.9 126 11 Q9J60 mus musculo
26 87 14.8 126 11 Q9J60 mus musculo
27 86.5 14.7 126 11 Q9J60 mus musculo
28 86 14.7 126 11 Q9J60 mus musculo
29 84.5 14.4 126 11 Q9J60 mus musculo
30 84.5 14.4 126 11 Q9J60 mus musculo
31 83.5 14.2 126 11 Q9J60 mus musculo
32 83.5 14.2 126 11 Q9J60 mus musculo
33 83.5 14.2 126 11 Q9J60 mus musculo
34 83 14.1 126 11 Q9J60 mus musculo
35 81.5 13.9 126 11 Q9J60 mus musculo
36 80.5 13.7 126 11 Q9J60 mus musculo
37 80.5 13.7 126 11 Q9J60 mus musculo
38 79.5 13.5 126 11 Q9J60 mus musculo
39 77.5 13.2 126 11 Q9J60 mus musculo
40 77.5 13.2 126 11 Q9J60 mus musculo
41 77 13.1 126 11 Q9J60 mus musculo
42 76.5 13.0 126 11 Q9J60 mus musculo
43 76 12.9 126 11 Q9J60 mus musculo
44 76 12.9 126 11 Q9J60 mus musculo
45 76 12.9 126 11 Q9J60 mus musculo

ALIGNMENTS

RESULT 1

Q9NS21 PRELIMINARY; PRT; 111 AA.
AC Q9NS21;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DE Chemokine MIP-2 gamma.
EN MIP-2 GAMMA.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
CX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20405642; PubMed=10946286;
RA Cao X., Zhang W., Wan T., He L., Chen T., Yuan Z., Ma S., Yu Y.,
RA Chen G.;
RT "Molecular cloning and characterization of a novel CX chemokine
neutrophils and dendritic cells."
RT macrophage inflammatory protein-2gamma chemoattractant for human
J. Immunol. 165:2588-2595(2000).
EL EMBL; AF106911; AAF78449.1; -
DR F1R; JG0182; JG0182.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1
SQ SEQUENCE 111 AA; 13126 MW; C9A18B3178CACF74 CRC64;

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1e-58;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAAL.....TKRFKYNWAKERYEYSDVKLEMKPKY 60

Db 1 MSLLPRAPPVSMRLAAL.....TKRFKYNWAKERYEYSDVKLEMKPKY 60

QY 61 PHCEKMWIIITKSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 111
DB 61 PHCEKMWIIITKSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 111

RESULT 2

Q8K453
ID Q8K453 PRELIMINARY; PRT; 99 AA.
AC Q8K453;
DT 01-OCT-2002 (TRENBLrel. 22, Created)
DT 01-OCT-2002 (TRENBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
DE BRAK.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar;
RA Han G.D., Koike H., Shimizu F., Kawachi H.;
RT "Rat homolog of breast and kidney.";
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF488348; AAM74057.1; -
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1
SQ SEQUENCE 99 AA; 11730 MW; 972C06336C7F46D6 CRC64;

Query Match 86.4%; Score 507; DB 11; Length 99;
Best Local Similarity 96.0%; Pred. No. 3.4e-50;
Matches 95; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAALALLLLALYATYRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKMWIIT 72
DB 1 MRLAALALLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKMWIIT 60
QY 73 KSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 111
DB 61 KSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 99

RESULT 3

Q9JHH7
ID Q9JHH7 PRELIMINARY; PRT; 99 AA.
AC Q9JHH7;
DT 01-OCT-2000 (TRENBLrel. 15, Created)
DT 01-OCT-2000 (TRENBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
DE B cell and monocyte-activating chemokine precursor (Brain cDNA, clone
DE MNCB-6413), similar to Mus musculus kidney-expressed chemokine CXCL
DE (Kec) mRNA, (Kec) (1200006123rik protein) (Small inducible cytokine
DE subfamily B).
DE CXCL14 OR SCYB14 OR BMAC OR 1200006123RIK.
GN Mus musculus (Mouse).
OS Eukaryota; Metazoa;
OC Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALE/CBYJ;
RA Sleeman M.A., Fraser J.K., Murison J.G., Kelly S.L., Prestidge R.,
RA Watson J.D., Kumble K.D.;
RT "B cell and monocyte-activating chemokine (BMAC), a novel non-ELR
RT alpha chemokine.";
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=CS7BL;
RA Osada N., Kusuda J., Tanuma R., Ito A., Hirata M., Sugano S.,
RA Hashimoto K.;

*isolation of full-length cDNA clones from mouse brain cDNA library
made by oligo-capping method.";
Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.

[3]
RP SEQUENCE FROM N.A.
RC STRAIN=CS7BL/6J; TISSUE=Embryo, and Lung;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana S.,
RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldi M.P.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohseki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690 (2001).
RN [4]

RP SEQUENCE FROM N.A.
RC STRAIN=CS7BL/6J; TISSUE=Body;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573 (2002).
DR EMBL; AF144754; AAF66694.1; -
DR EMBL; AB041614; BAA95097.1; -
DR EMBL; AK014351; BAB29292.1; -
DR EMBL; AK046455; BAC23411.1; -
DR EMBL; AK076112; BAC36192.1; -
DR MGD; MGI:1888514; Cxcl14.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
KW Signal.
FT SIGNAL 1 23 POTENTIAL.
FT CHAIN 24 99 B CELL AND MONOCYTE-ACTIVATING
FT CHEMOKINE.
SQ SEQUENCE 99 AA; 11716 MW; 97352E91FF7F46D6 CRC64;

Query Match 86.2%; Score 506; DB 11; Length 99;
Best Local Similarity 94.9%; Pred. No. 4.4e-50;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAALALLLLALYATYRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKMWIIT 72
DB 1 MRLAALALLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKMWIIT 60
QY 73 KSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 111
DB 61 KSVRYGQEHCLHPKLOSTKRFIKYNWANEKRVYEE 99

RESULT 4

Q91V02
ID Q91V02 PRELIMINARY; PRT; 95 AA.
AC Q91V02;
DT 01-DEC-2001 (TRENBLrel. 19, Created)
DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 26, 2004, 03:16:23 ; Search time 694 Seconds
(without alignments)
10314.429 Million cell updates/sec

Title: US-09-978-189-369

Perfect score: 1685

Sequence: 1 gcggagacagcgagagcg.....aatgtaaaaaaaaaaaaaa 1685

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_25Jan04.*

- 1: Geneseq1980s.*
- 2: Geneseq1990s.*
- 3: Geneseq2000s.*
- 4: Geneseq2001as.*
- 5: Geneseq2001bs.*
- 6: Geneseq2002as.*
- 7: Geneseq2003as.*
- 8: Geneseq2003bs.*
- 9: Geneseq2003cs.*
- 10: Geneseq2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1685	100.0	1685	2	Aaz34205 Human PRO
2	1685	100.0	1685	3	Aac58588 Human PRO
3	1685	100.0	1685	3	Aac78551 Human PRO
4	1685	100.0	1685	6	Abx55212 Human Bol
5	1685	100.0	1685	7	Ac42738 Novel hum
6	1685	100.0	1685	7	ACA63773 Novel hum
7	1685	100.0	1685	7	ABV72423 Nucleotid
8	1685	100.0	1685	7	ACX71937 Human sec
9	1685	100.0	1685	7	ABX22577 CDNA enco
10	1685	100.0	1685	7	ACA66318 Human CDN
11	1685	100.0	1685	8	ADA24908 Novel hum
12	1685	100.0	1685	8	ACD29919 Novel hum
13	1685	100.0	1685	8	ADA12569 Human CDN
14	1685	100.0	1685	8	ACD29334 Novel hum
15	1685	100.0	1685	9	ADb73875 Human PRO
16	1685	100.0	1685	9	ADb76591 Human PRO
17	1685	100.0	1685	9	ADC44017 Human CDN
18	1685	100.0	1685	9	ADC61777 Human CDN
19	1685	100.0	1685	9	ADC63741 Human CDN
20	1685	100.0	1685	9	ADC66841 Human CDN
21	1685	100.0	1685	9	ADC68965 Human CDN
22	1685	100.0	1685	9	ADC63025 Human CDN
23	1685	100.0	1685	9	ADC68090 Human CDN

24	1685	100.0	1685	9	ADC41410	Adc41410 Human CDN
25	1685	100.0	1685	9	ADC67465	Adc67465 Human CDN
26	1685	100.0	1685	9	ADC62401	Adc62401 Human CDN
27	1685	100.0	1685	9	ADC42034	Adc42034 Human CDN
28	1685	100.0	1685	9	AD549403	Ad549403 Human CDN
29	1685	100.0	1685	9	AD535457	Ad535457 Human CDN
30	1685	100.0	1685	9	ADE16571	Adel6571 Human CDN
31	1685	100.0	1685	9	ADD73186	Add73186 Human CDN
32	1685	100.0	1685	9	ADD72544	Add72544 Human CDN
33	1685	100.0	1685	9	ADE17195	Adel17195 Human CDN
34	1685	100.0	1685	10	ADE48703	Adc48703 Human CDN
35	1685	100.0	1685	10	ADE89804	Adc89804 Human CDN
36	1640.4	97.4	1677	5	AAF93905	Aaf93905 Human neo
37	1447	85.9	1564	2	AAZ08962	Abx10886 cDNA enco
38	1358.4	80.6	1458	2	AAZ08965	Abx10892 cDNA enco
39	1358.4	80.6	1458	2	AAZ08965	Abx10892 cDNA enco
40	1358.4	80.6	1458	2	ABN88003	Abn88003 Human sma
41	1178.8	70.0	14962	6	ABN88003	Abn88003 Human end
42	1092.2	64.8	1630	2	AAZ42039	Aaz42039 Human end
43	974.6	57.8	1962	2	AAZ52934	Aaz52934 Human pro
44	872.6	51.8	1962	2	AAZ52934	Aaz52934 Human pro
45	727.2	43.2	1663	3	AAZ61823	Aaz61823 Full-leng

ALIGNMENTS

RESULT 1
AAZ34205
ID AAZ34205 standard; cDNA; 1685 BP.

XX AAZ34205;

XX 07-DEC-1999 (first entry)

DE Human PRO273 nucleotide sequence.

XX Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
KW secreted protein; transmembrane protein; ss.

OS Homo sapiens.

PN WO9946281-A2.

XX 16-SEP-1999.

XX 08-MAR-1999; 99WO-US005028.

XX 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079254P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.

CC CC AC78458 to AC78599 represent polynucleotide and EST (expressed sequence
CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC The PRO polynucleotides and polypeptides have cytosstatic activity. The
CC polynucleotides and polypeptides can be used for detecting the presence
CC of PRO polypeptides in samples for linking bioactive molecules to cells
CC and for modulating biological activities of cells, using the polypeptide
CC for specific targeting. The polypeptide targeting can be used to kill the
CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC provide specific targeting of bioactive molecules to cells. AC78600 to
CC AC78987 represent PCR primers and probes used in the isolation of the
CC PRO polynucleotide sequences

Db 961 AGCTGCCACGGGCTCTCTGGGCTTATGGCGGTTCACAGCCTCAGTGTGACTCCACAGTG 1020
Qy 1021 GCCCTGTAGCCGGGCAAGCAGGAGCAGGCTCTCTCTGATCTGTCTCTCAGGAATCTCAA 1080
Db 1021 GCCCTGTAGCCGGGCAAGCAGGAGCAGGCTCTCTGATCTGTCTCTCAGGAATCTCAA 1080
Qy 1081 GTTTGGTTGCCAGAAAATGTGCTTCAATTCCTCCCTGTTAAATTTTACACACCTTAGGA 1140
Db 1081 GTTTGGTTGCCAGAAAATGTGCTTCAATTCCTCCCTGTTAAATTTTACACACCTTAGGA 1140
Qy 1141 AACATTTCCAAAGATCTGTGATGCGGAGACAAATGATCCTTAAAGAGGTTGGGGTCTT 1200
Db 1141 AACATTTCCAAAGATCTGTGATGCGGAGACAAATGATCCTTAAAGAGGTTGGGGTCTT 1200
Qy 1201 TCCCAACTGAGATTTCTGAAAGGTTCAAGGTTCAATTTAATGCTTCAAGAGCATG 1260
Db 1201 TCCCAACTGAGATTTCTGAAAGGTTCAAGGTTCAATTTAATGCTTCAAGAGCATG 1260
Qy 1261 TGAGGTTCCCAACACTGTGACGAAAACCTTACGAGAAAATTAATAATATATGATACA 1320
Db 1261 TGAGGTTCCCAACACTGTGACGAAAACCTTACGAGAAAATTAATAATATATGATACA 1320
Qy 1321 TCGCAATATACAGCTACAGACACACATTTCTGTTGACAAAGGAAAACCTTCAAAGCATG 1380
Db 1321 TCGCAATATACAGCTACAGACACACATTTCTGTTGACAAAGGAAAACCTTCAAAGCATG 1380
Qy 1381 TTCTTCTCCCTCACCACACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
Db 1381 TTCTTCTCCCTCACCACACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
Qy 1441 GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTCGAAAGCTAAAGATGACCATGCGCC 1500
Db 1441 GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTCGAAAGCTAAAGATGACCATGCGCC 1500
Qy 1501 TTTCTCTGTACATATACCTTTAGAGAGCGCCCTCCACACATGCCCCCAGTATATGC 1560
Db 1501 TTTCTCTGTACATATACCTTTAGAGAGCGCCCTCCACACATGCCCCCAGTATATGC 1560
Qy 1561 CGCATTGTACTGCTGTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 1620
Db 1561 CGCATTGTACTGCTGTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 1620
Qy 1621 GGTTCATATTTCTTCAAGTGAAGATGAATTAATTAATTAATTAATTAATTAATTAATTAAT 1680
Db 1621 GGTTCATATTTCTTCAAGTGAAGATGAATTAATTAATTAATTAATTAATTAATTAATTAAT 1680
Qy 1681 AAAAA 1685
Db 1681 AAAAA 1685

RESULT 4
ID ABS55212 standard; cDNA; 1685 BP.

XX ABS55212;

AC ABS55212;

DT 16-DEC-2002 (first entry)

XX Human Bolekine cDNA.

XX Human; gene; ss; Bolekine; leukocyte; immune response; chemokine;
KW leukocyte trafficking; adhesion; endothelial cell; chemottractant;
KW proliferation; activation; systemic lupus erythematosus; arthritis;
KW angioneurosis; systemic sclerosis; autoimmune haemolytic anaemia;
KW thyroiditis; diabetes mellitus; renal disease; demyelinating disease;
KW nervous system; polynuropathy; hepatitis; primary biliary cirrhosis;
KW inflammatory bowel disease; autoimmune skin disease; alopecia; psoriasis;
KW allergy; asthma; atopic dermatitis; food hypersensitivity; lung disease;
KW stroke; encephalitis; multiple sclerosis; agonist; antagonist;
KW T-lymphocyte; mononuclear cell; eosinophil; polymorphonuclear neutrophil;
KW PMN; pluripotent cell; neuronal cell; MAP2; transgenic; therapeutic;
KW gene therapy; tumour; neovascularisation.

XX Homo sapiens.
XX Key Location/Qualifiers
FH 167..502
FT /*tag= a "Bolekine"
FT /product= 167..268
FT sig_peptide
XX US2002119118-A1.
XX 29-AUG-2002.
XX 22-MAR-2001; 2001US-00816920.
XX 03-NOV-1997; 97US-0064249P.
XX 27-APR-1998; 98US-0083336P.
PR 08-MAR-1999; 99WO-US005028.
PR 18-FEB-2000; 2000WO-US004341.
PR 02-MAR-2000; 2000WO-US005841.
XX (GETH) GENENTECH INC.
XX Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;
PI WPI; 2002-740172/80.
XX P-PSDB; ABG70798.
XX Novel Bolekine polypeptide useful for identifying agonist and antagonist
PT of the polypeptide, and for treating immune related disorder, e.g.
PT systemic lupus erythematosus and rheumatoid arthritis in a mammal.
XX Claim 3; Fig 1; 63pp; English.
XX The invention discloses a human Bolekine polypeptide, or its fragment.
XX Leukocytes play a important role in the immune response and the processes
CC by which these cells move to their appropriate destination is critical.
CC Chemokines are involved in leukocyte trafficking by mediating the
CC expression of adhesion molecules on endothelial cells, producing
CC chemotactants, stimulate proliferation and regulate activation of
CC specific cell types. The polynucleotide, polypeptide and antibodies
CC raised against the polypeptide are useful for treating an immune related
CC disorder in a mammal, such as systemic lupus erythematosus, arthritis,
CC angioneurosis, systemic sclerosis, autoimmune haemolytic anaemia,
CC thyroiditis, diabetes mellitus, renal disease, demyelinating disease of
CC the central or peripheral nervous system, polynuropathy, hepatitis,
CC primary biliary cirrhosis, inflammatory bowel disease, an autoimmune or
CC immune-mediated skin disease, alopecia, psoriasis, allergic disease,
CC asthma, atopic dermatitis, food hypersensitivity, immunologic disease of
CC the lung, stroke, encephalitis and multiple sclerosis. The polypeptides
CC and polynucleotides are also useful for identifying a compound (agonist
CC or antagonist) that inhibits the expression of activity of Bolekine, for
CC diagnosing an immune related disease in a mammal, for modulating the
CC proliferation of T-lymphocytes for enhancing the infiltration of
CC inflammatory cells (such as mononuclear cells, eosinophils and
CC polymorphonuclear neutrophils (PMNs)) into a tissue of a mammal and for
CC inducing the differentiation of pluripotent cells into neuronal cells in
CC a mammal, where the cells differentiate to a state such that neuronal in
CC markers (e.g. MAP2) are detected. The polynucleotides are also useful for
CC generating transgenic or knock out animals which can be used in the
CC development and screening of therapeutically useful agents, in gene
CC therapy, chromosome markers and diagnostically for tissue typing and for
CC treating tumours by inhibiting the neovascularisation. The sequence
XX presented is the human Bolekine cDNA
SQ Sequence 1685 BP; 484 A; 435 C; 387 G; 379 T; 0 U; 0 Other;
Query Match 100.0%; Score 1685; DB 6; Length 1685;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1685; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGGAGACAAAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGG 60

RESULT 6

ACA63773
ID ACA63773 standard; cDNA; 1685 BP.

XX AC ACA63773;

XX DT 16-JUN-2003 (first entry)

DE DE Novel human secreted and transmembrane protein PRO273 cDNA.

XX Human, secreted and transmembrane protein; PRO; antiinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; inflammatory disease; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
KW tissue typing; gene; ss.

XX OS Homo sapiens.

XX US2002192706-A1.

XX PD 19-DEC-2002.

XX PF 24-OCT-2001; 2001US-00999832.

PR 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 11-MAR-1998; 98US-0077649P.

PR 12-MAR-1998; 98US-0077731P.

PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040220.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079294P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079738P.

PR 27-MAR-1998; 98US-0079786P.

PR 30-MAR-1998; 98US-0079920P.

PR 30-MAR-1998; 98US-0079923P.

PR 31-MAR-1998; 98US-0080105P.

PR 31-MAR-1998; 98US-0080107P.

PR 31-MAR-1998; 98US-0080165P.

PR 31-MAR-1998; 98US-0080194P.

PR 01-APR-1998; 98US-0080327P.

PR 01-APR-1998; 98US-0080328P.

PR 01-APR-1998; 98US-0080333P.

PR 01-APR-1998; 98US-0080334P.

PR 08-APR-1998; 98US-0081049P.

PR 08-APR-1998; 98US-0081070P.

PR 08-APR-1998; 98US-0081071P.

PR 09-APR-1998; 98US-0081193P.

PR 09-APR-1998; 98US-0081203P.

PR 09-APR-1998; 98US-0081223P.

PR 15-APR-1998; 98US-0081817P.

PR 15-APR-1998; 98US-0081819P.

PR 15-APR-1998; 98US-0081838P.

PR 15-APR-1998; 98US-0081952P.

PR 15-APR-1998; 98US-0081955P.

PR 21-APR-1998; 98US-0082568P.

PR 21-APR-1998; 98US-0082569P.

PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98WO-US024855.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US028565.
PR 30-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US023328.
PR 24-AUG-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017032.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.

(GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gerber H, Hillan KJ, Gertsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA,
PI Stewart TA, Tumas D, Williams PM, Wood WI;

XX WPI: 2003-328860/31.
DR P-PSDB; AB072247.

XX New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.

PS Claim 2; Fig 148; 453pp; English.

XX The invention describes an isolated nucleic acid (1) comprising, or which
is at least 80 % sequence identity to, or the full-length coding sequence
of, any of 118 300-2100 nucleotide sequences, which encodes its
corresponding PRO polypeptide selected from 118 100-700 amino acid
sequences, all given in the specification. The nucleic acids and
polypeptides are useful for treating inflammatory diseases, organ
failure, atherosclerosis, cardiac injury, infertility, birth defects,
premature aging, AIDS, cancer, or diabetic complications. The nucleic
acids are useful as hybridisation probes, in chromosome and gene mapping,
CC and in generating antisense RNA or DNA. The polypeptides are useful as
pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful

961	AGCTGCCACGGGCTCCTCGGCTTATGGCCGCTCAAGCCTCAGTGTGACTCTCCACAGTG	1020
961	AGCTGCCACGGGCTCCTCGGCTTATGGCCGCTCAAGCCTCAGTGTGACTCTCCACAGTG	1020
1021	CCCCCTGTAGCCGGGCAAGCAGGACGAGTCTCTCTGCACTCTCTTCTCTGAGGAATCTCAA	1080
1021	CCCCCTGTAGCCGGGCAAGCAGGACGAGTCTCTCTGCACTCTCTTCTCTGAGGAATCTCAA	1080
1081	GTTTGGTTGCCAGAAAAATGTGCTTCATTCGCCCTCGGTTAAATTTTACACACCCCTAGGA	1140
1081	GTTTGGTTGCCAGAAAAATGTGCTTCATTCGCCCTCGGTTAAATTTTACACACCCCTAGGA	1140
1141	AACATTTCCAAAGATCCTGTGATGCGGAGACAATATGATCCCTTAAAGAGGTGTGGGTCTT	1200
1141	AACATTTCCAAAGATCCTGTGATGCGGAGACAATATGATCCCTTAAAGAGGTGTGGGTCTT	1200
1201	TCCCAACTGCTGAGGATTTCTGAAAGGTTTCACAGGTTCAATATTTAAATGCTTTCAGAAGCATG	1260
1201	TCCCAACTGCTGAGGATTTCTGAAAGGTTTCACAGGTTCAATATTTAAATGCTTTCAGAAGCATG	1260
1261	TGAGGTTTCCCAACACTGTCTGAGCAAAAACCTTAGGAGAAAACTTTAAATAATATATGAATACA	1320
1261	TGAGGTTTCCCAACACTGTCTGAGCAAAAACCTTAGGAGAAAACTTTAAATAATATATGAATACA	1320
1321	TGCGCAATACACACTACAGACACACACATTCGTGTGACAAGGGAAAAACCTTCAAAAGCATGT	1380
1321	TGCGCAATACACACTACAGACACACACATTCGTGTGACAAGGGAAAAACCTTCAAAAGCATGT	1380
1381	TTCTTTTCCCTCACCACAACAGAACATGCACTGTCTTAAAGCAATATATTTGTGATTCGCCAT	1440
1381	TTCTTTTCCCTCACCACAACAGAACATGCACTGTCTTAAAGCAATATATTTGTGATTCGCCAT	1440
1441	GTAATTTCTTCAATGTTAAACAGTGCAGTCTCTCTTTTGGAAAGCTTAAAGATGACCATGCGCCC	1500
1441	GTAATTTCTTCAATGTTAAACAGTGCAGTCTCTCTTTTGGAAAGCTTAAAGATGACCATGCGCCC	1500
1501	TTTCTCTGTACATATACCTTTAAAGAGGCGCCCTCCACACACCTGCCCCCAGTATATGC	1560
1501	TTTCTCTGTACATATACCTTTAAAGAGGCGCCCTCCACACACCTGCCCCCAGTATATGC	1560
1561	CGCATTTGACTGCTGTGTTATATGCTATGTACATGTACAGAAACCATTAGCATTCGATGCA	1620
1561	CGCATTTGACTGCTGTGTTATATGCTATGTACATGTACAGAAACCATTAGCATTCGATGCA	1620
1621	GGTTTCATATTTCTTTCTAAGATGGAAGATTAATAATATATTTGAAATGTAAAAAATAA	1680
1621	GGTTTCATATTTCTTTCTAAGATGGAAGATTAATAATATATTTGAAATGTAAAAAATAA	1680
1681	AAAAA 1685	
1681	AAAAA 1685	
RESULT 7		
ABV72423		
ID ID ABV72423 standard; cDNA; 1685 BP.		
XX	AC	ABV72423;
XX	AC	
XX	AC	
DT	29-JAN-2003	(first entry)
XX	DE	
XX	DE	Nucleotide sequence of Human Bolekine.
XX	XX	Human; Bolekine; T-lymphocyte proliferation; immune related disorder;
XX	KW	systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
XX	KW	juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
XX	KW	idiopathic inflammatory myopathy; Sjogren's syndrome; gene;
XX	KW	systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia;
XX	KW	autoimmune thrombocytopenia; thyroiditis; diabetes mellitus;
XX	KW	immune-mediated renal disease; demyelinating disease;
XX	KW	idiopathic demyelinating polyneuropathy; Guillien-Barre syndrome;
XX	KW	chronic inflammatory demyelinating polyneuropathy; hepatobiliary disease;
XX	KW	hepatitis; primary biliary cirrhosis; granulomatous hepatitis;

KW hepatitis; primary biliary cirrhosis; granulomatous hepatitis;

sclerosing cholangitis; inflammatory bowel disease; gluten-sensitive enteropathy; Whipple's disease; skin disease; erythema multiforme; contact dermatitis; psoriasis; allergy; asthma; allergic rhinitis; atopic dermatitis; food hypersensitivity; urticaria; eosinophilic pneumonia; idiopathic pulmonary fibrosis; hypersensitivity pneumonitis; graft rejection; graft-versus-host disease; gene therapy; ss.

Homio sapiens.

Key	Location/Qualifiers
CDS	167..502
	/*tag= a
	/product= "Bolekin"
sig_peptide	167..268
	/*tag= b

W0200277028-A1

C
 C
 C
 C
 E
 C
 C

-
1
0
8
A
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O
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4
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O
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O
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4
1
1
.

4
2

22-MAR-2001; 2001WU-US009552.

(GETH) GENENTECH INC.

Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;

WPI; 2003-018887/01.

F-ESUB; ABB99990.

New Bolekine polypeptides and encoding nucleic acids, useful for treating an immune related disorder such as systemic lupus erythematosus.

rheumatoid arthritis, psoriasis, asthma, allergic rhinitis and atopic dermatitis.

SECRET

the present sequence encodes a human keratin polypeptide, keratins are active stimulators of the proliferation of T-

lymphocytes. Bolekine polypeptides and polynucleotides are useful for treating an immune related disorder e.g. systemic lupus erythematosus.

rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a

myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,

thyroiditis, diabetes mellitus, immune-mediated renal disease, a

demyelinating disease of the central or peripheral nervous system, idiopathic demyelinating polyneuropathy, Guillen-Barre syndrome, a

chronic inflammatory demyelinating polyneuropathy, a hepatobiliary

biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,

disease, an autoimmune or immune-mediated skin disease, a bullous skin

disease, erythema multiforme, contact dermatitis, porphyria, an allergic disease, asthma, allergic rhinitis, atopic dermatitis, food

hypersensitivity, urticaria, an immunologic disease of the lung, eosinophilic pneumonias, idiopathic pulmonary fibrosis, hypersensitivity

pneumonitis, a transplantation associated disease, graft rejection or host disease. The polyclonal polynitides and encoding nucleic acid constructs may be used to treat or prevent rejection or

acid molecules can also be used as hybridization probes, for generation

chromosome identification and tissue typing

Sequence 1685 BP: 484 A; 435 C; 387 G; 379 T; 0 U; 0 Other;

100 0%. Score 1685. DB 7: Length 1685:

Test Local Similarity	100.0%; Pred. No. 0;
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100

A vertical ruler with markings from 1 to 14 cm. The markings are in centimeters, with millimeter increments indicated between the centimeter numbers. The ruler is oriented vertically, with the 1 cm mark at the bottom and the 14 cm mark at the top.


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QY 1141 AACATTTCCAAAGATCCTGTGTGATGCGGAGACAAATGATCCTTTAAAGAGAGGTGTGGGTCCTT 1200
Db 1141 AACATTTCCAAAGATCCTGTGTGATGCGGAGACAAATGATCCTTTAAAGAGAGGTGTGGGTCCTT 1200
QY 1201 TCCCAACTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAATGCTTCAGAGCATG 1260
Db 1201 TCCCAACTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAATGCTTCAGAGCATG 1260
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Db 1261 TGAGGTTCCCAACACTGTTCAGCAAAACCTTTAGAGAAAACCTTTAAAAATATATGAAATACA 1320
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Db 1501 TTTCTCTGTACATATACCTTTAGAACGCGCCCTCCACACACTGCCCCCAGTATATGC 1560
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Db 1561 CGCATGTCCTGCTGTATATGCTATGTCATGTCAGAACCATAGCATTCATGCA 1620
QY 1621 GGTTCATATCTTCTTAAGATGGAAGTATATAATATTTGAAATGTAATAAAAAA 1680
Db 1621 GGTTCATATCTTCTTAAGATGGAAGTATATAATATTTGAAATGTAATAAAAAA 1680
QY 1681 AAAAA 1685
Db 1681 AAAAA 1685

RESULT 8
ID ACA71937 standard; cDNA; 1685 BP.
XX ACA71937;
AC
DT 11-AUG-2003 (first entry)
DE Human secreted and transmembrane PRO polypeptide #3 cDNA.
KW Human; ss; gene; thrombolytic agent; interferon; interleukin; cytokine;
KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;
KW apoptosis related condition; AIDS; amyotrophic lateral sclerosis;
KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;
KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;
KW hypertension; myocardial ischaemia; kidney disease; carcinogenesis;
KW glomerulonephritis; lung disease; pulmonary hypertension; pre-eclampsia;
KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
KW inflammatory bowel disease; reproductive disorder; premature labour.
OS Homo sapiens.
XX
XX US2002177553-A1.
XX
XX 28-NOV-2002.
XX
XX 15-OCT-2001; 2001US-00978192.
XX
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
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PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-0040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
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PR 27-MAR-1998; 98US-0079786P.
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PR 26-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
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PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 99US-0000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99US-00050028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99US-000505190.
PR 12-MAR-1999; 99US-00267213.
PR 12-APR-1999; 99US-00284291.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99US-00310733.
PR 02-JUN-1999; 99US-00312252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99US-0028313.
PR 02-DEC-1999; 99US-0028551.
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PR 16-DEC-1999; 99US-0030095.
PR 30-DEC-1999; 99US-0031243.
PR 30-DEC-1999; 99US-0031274.
PR 05-JAN-2000; 2000US-0000219.
PR 06-JAN-2000; 2000US-0000277.
PR 06-JAN-2000; 2000US-0003376.
PR 11-FEB-2000; 2000US-0003365.
PR 19-FEB-2000; 2000US-0004341.
PR 24-FEB-2000; 2000US-0005004.
PR 02-MAR-2000; 2000US-0005841.
PR 10-MAR-2000; 2000US-0006319.
PR 21-MAR-2000; 2000US-0007532.
PR 30-MAR-2000; 2000US-0008439.
PR 17-MAY-2000; 2000US-0013705.
PR 22-MAY-2000; 2000US-0014042.
PR 30-MAY-2000; 2000US-0014941.
PR 02-JUN-2000; 2000US-0015264.
PR 28-JUL-2000; 2000US-0020710.
PR 24-AUG-2000; 2000US-0023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000US-0032578.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000US-0034956.
PR 28-FEB-2001; 2001US-0006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001US-0009552.
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QY 1381 TTCCTTCCCTCACCACACAGAAATGACGATCTAAAGCAATATATTTGTGATTCGCCAT 1440
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Db 1501 TTTCTCTGTACATATACCTTTAAGAACGCGCCCTCCACACACACTGCGCCCATATATGC 1560
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Db 1561 CGCATGTGACTGCTGTGTATATGCTATGATGACATGTCAGAAACCATAGCATTCGATGCA 1620
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Db 1621 GGTTCATATCTTTCTTAAGATGGAAGCTAATAAATAATATTTGAAATGTAATAAAAAA 1680
QY 1681 AAAAA 1685
Db 1681 AAAAA 1685

RESULT 9
ABX92577
ID ABX92577 standard; cDNA; 1685 BP.
XX AC ABX92577;
XX XX
DT 08-MAY-2003 (first entry)
XX XX
DE cDNA encoding human PRO273 polypeptide.
XX Human; PRO polypeptide; secreted and transmembrane protein;
KW immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
KW cardiac insufficiency; nervous system disorder; kidney disorder;
KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
KW genetic disorder; cytostatic; antidiabetic; antiinflammatory;
KW antithratic; anti-tumour; vulnery; antianaemic; dermatological;
KW cardiant; gene; ss.
XX Homo sapiens.
XX XX
PD US2002169284-A1.
XX 14-NOV-2002.
XX XX
PF 16-OCT-2001; 2001US-00978697.
XX XX
XX 26-MAY-1981; 81US-00267213.
PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
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PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
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PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
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PR 27-MAR-1998; 98US-0079689P.
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PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 26-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0024855.
PR 07-DEC-1998; 98US-00242054.
PR 22-DEC-1998; 98US-00248517.
PR 05-JAN-1999; 99US-00000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99US-00265028.
PR 10-MAR-1999; 99US-00265686.
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PR 12-APR-1999; 99US-0028429.
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PR 25-AUG-1999; 99US-00380137.
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PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99US-0028313.
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PR 02-DEC-1999; 99US-0028551.
PR 16-DEC-1999; 99US-0028551.
PR 30-DEC-1999; 99US-0031243.
PR 05-JAN-2000; 99US-0031274.
PR 05-JAN-2000; 2000US-0000219.
PR 06-JAN-2000; 2000US-0000277.
PR 06-JAN-2000; 2000US-0000376.
PR 11-FEB-2000; 2000US-00003565.
PR 18-FEB-2000; 2000US-00004341.
PR 24-FEB-2000; 2000US-00005004.
PR 02-MAR-2000; 2000US-00005841.
PR 10-MAR-2000; 2000US-00006319.
PR 21-MAR-2000; 2000US-00007532.
PR 30-MAR-2000; 2000US-00008439.
PR 17-MAY-2000; 2000US-00013705.
PR 22-MAY-2000; 2000US-00014042.
PR 30-MAY-2000; 2000US-00014941.
PR 02-JUN-2000; 2000US-00015264.
PR 28-JUL-2000; 2000US-00020710.
PR 24-AUG-2000; 2000US-00023328.
PR 08-NOV-2000; 2000US-00023749.
PR 01-DEC-2000; 2000US-0002678.
PR 20-DEC-2000; 2000US-00027259.
PR 20-DEC-2000; 2000US-0002956.
PR 28-FEB-2001; 2001US-0006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
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PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001US-00872035.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882536.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001US-00886342.
PR 29-JUN-2001; 2001US-00886342.
PR 09-JUL-2001; 2001US-00886342.
PR 30-JUL-2001; 2001US-00886342.
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PR	15-MAY-1998;	98US-00055800P;
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PR	01-JUL-1998;	98US-0009135P;
PR	30-JUL-1998;	98US-0004651P;
PR	11-SEP-1998;	98US-0000038P;
PR	07-OCT-1998;	98WO-US031141P;
PR	20-NOV-1998;	98US-0109304P;
PR	22-DEC-1998;	98WO-US024855;
PR	23-DEC-1998;	98US-0113621P;
PR	05-JAN-1999;	98US-0000101P;
PR	08-MAR-1999;	98WO-US005028;
PR	10-MAR-1999;	98WO-US005190;
PR	12-MAR-1999;	98US-0123957P;
PR	29-MAR-1999;	98US-0126773P;
PR	21-APR-1999;	98US-0130232P;
PR	26-APR-1999;	98US-0131022P;
PR	28-APR-1999;	98US-0131445P;
PR	14-MAY-1999;	98US-0134287P;
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PR	02-JUN-1999;	99WO-US012252;
PR	16-JUN-1999;	98US-0139557P;
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PR	07-JUL-1999;	98US-0145680P;
PR	26-JUL-1999;	98US-0145698P;
PR	28-JUL-1999;	98US-0146222P;
PR	30-OCT-1999;	98US-0162506P;
PR	30-NOV-1999;	99WO-US028313;
PR	02-DEC-1999;	99WO-US028551;
PR	02-DEC-1999;	99WO-US028565;
PR	16-DEC-1999;	99WO-US030095;
PR	30-DEC-1999;	99WO-US031243;
PR	05-JAN-1999;	99WO-US031274;
PR	30-JAN-2000;	2000WO-US000219;
PR	06-JAN-2000;	2000WO-US000276;
PR	06-JAN-2000;	2000WO-US000377;
PR	11-FEB-2000;	2000WO-US003365;
PR	14-FEB-2000;	2000WO-US004341;
PR	28-FEB-2000;	2000WO-US004504;
PR	10-MAR-2000;	2000WO-US005841;
PR	10-MAR-2000;	2000WO-US006319;
PR	31-MAR-2000;	2000WO-US007532;
PR	30-MAR-2000;	2000WO-US000843;
PR	17-MAY-2000;	2000WO-US013705;
PR	22-MAY-2000;	2000WO-US014042;
PR	30-MAY-2000;	2000WO-US014941;
PR	02-JUN-2000;	2000WO-US015264;
PR	28-JUN-2000;	2000WO-US020710;
PR	21-AUG-2000;	2000WO-US023328;
PR	04-DEC-2000;	2000WO-US032678;
PR	28-FEB-2001;	2000WO-US034956;
PR	28-FEB-2001;	2001WO-US0006520;
PR	22-MAR-2001;	2001WO-US009552;
PR	25-MAY-2001;	2001WO-US017092;
PR	01-JUN-2001;	2001WO-US017800;
PR	20-JUN-2001;	2001WO-US019692;
PR	29-JUN-2001;	2001WO-US021066;
PR	09-JUL-2001;	2001WO-US0201735;
PR	30-JUL-2001;	2001WO-US018585;

601 AAAAAAAAAAAGGCTTCTTTCTCAGGCAAGACACAAATATATATGTTATGA 660
661 AGCACTTTTACCAAGGTGAGTTTACATTTTATAGCTGCGTGCAGAGGCTTCCAGA 720
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1681 AAAAA 1685

Db 1681 AAAAA 1685
RESULT 13
ADA12569
ID ADA12569 standard; cDNA; 1685 BP.
XX
XX ADA12569;
XX AC
XX AC
DT 06-NOV-2003 (first entry)
XX
XX Human cDNA encoding secreted/transmembrane polypeptide PRO273.
XX
XX ss; gene; inflammatory disease; organ failure; atherosclerosis;
XX cardiac injury; infertility; birth defect; premature aging; AIDS; cancer;
XX diabetic complication; tissue typing; human.
XX Homo sapiens.
XX
XX US2003055216-A1.
XX
XX 20-MAR-2003.
XX
XX 17-OCT-2001; 2001US-00978824.
XX
XX 21-MAY-1996; 96US-0018049P.
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066364P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077641P.
XX 11-MAR-1998; 98US-0077649P.
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XX 17-MAR-1998; 98US-0004022O.
XX 20-MAR-1998; 98US-0078886P.
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XX 20-MAR-1998; 98US-0078939P.
XX 23-MAR-1998; 98US-0079294P.
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XX 15-APR-1998; 98US-0081952P.
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XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082700P.
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[illegible]

Db 121 GGGTGGGCTCTCCGGGCGCGCTCCGACGGCGCAGCGCCCTCCCAATGTCCCTGTCTCC 180
 QY 181 ACGCGGCGCCCTCCGGTACGATGAGCTCTCTGGCGCGCGCTGTCTCTGTCTGTCTGTCT 240
 Db 181 ACGCGGCGCCCTCCGGTACGATGAGCTCTCTGGCGCGCGCTGTCTCTGTCTGTCTGTCT 240
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 Db 241 GCGCTGTACACCGCGCGCTGTGGACGGGTCAAAATGCAAGTGTCTCCCGGAGGAGCCAA 300
 QY 301 GATCGCTACAGCGGACGTGAAGAGCTGGAATGAAGCCAAAGTACCGCACTCCGAGGA 360
 Db 301 GATCGCTACAGCGGACGTGAAGAGCTGGAATGAAGCCAAAGTACCGCACTCCGAGGA 360
 QY 361 GAAGATGTTTATCATCACCAACAGAGCGTGTCCAGGTACCGAGGTACGAGGACTGCCT 420
 Db 361 GAAGATGTTTATCATCACCAACAGAGCGTGTCCAGGTACCGAGGTACGAGGACTGCCT 420
 QY 421 GCACCCAGCTGACAGGACCAAGCGCTTATCAAGTGTGACAGCGCTCGAAGCGAGAA 480
 Db 421 GCACCCAGCTGACAGGACCAAGCGCTTATCAAGTGTGACAGCGCTCGAAGCGAGAA 480
 QY 481 GCGCAGGCTTACGAAGAAATAGGTTGAAAAACCTCAGAGGGAAGTCCAAACGAGTTG 540
 Db 481 GCGCAGGCTTACGAAGAAATAGGTTGAAAAACCTCAGAGGGAAGTCCAAACGAGTTG 540
 QY 541 GGAGACTTGTGCAAGGACTTTCAGATTAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 600
 Db 541 GGAGACTTGTGCAAGGACTTTCAGATTAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 600
 QY 601 AAAAAAAGAAAAAGCTTCTTCTCAGAGGATTAAGACACAAATTAATATTGTTATGA 660
 Db 601 AAAAAAAGAAAAAGCTTCTTCTCAGAGGATTAAGACACAAATTAATATTGTTATGA 660
 QY 661 AGCACTTTTACCAACGCTTATTTTATAGTCTGCGTCCGAAAGCTCCAG 720
 Db 661 AGCACTTTTACCAACGCTTATTTTATAGTCTGCGTCCGAAAGCTCCAG 720
 QY 721 TGGGAGACCCATCTCTTGTCTCCAGACTTCATCAGAGGTGCTTTTATCAAAAGG 780
 Db 721 TGGGAGACCCATCTCTTGTCTCCAGACTTCATCAGAGGTGCTTTTATCAAAAGG 780
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 Db 781 GGAAAACTCATGCTTCTTTTAAAAAATGCTTTTGTATTGTCCATGCTACTA 840
 QY 841 TACATCTGAGCTTTATAGCCCGCGGAGGAACATGAGCTTGGTGGACATTTTATTG 900
 Db 841 TACATCTGAGCTTTATAGCCCGCGGAGGAACATGAGCTTGGTGGACATTTTATTG 900
 QY 901 CAGTGTGTCTCCATCTTCTAGCTTGGGAGCTTCCGCTTAGAGGTCTCGCGCTCCGAC 960
 Db 901 CAGTGTGTCTCCATCTTCTAGCTTGGGAGCTTCCGCTTAGAGGTCTCGCGCTCCGAC 960
 QY 961 AGCTGCAAGGCTCTCTGCGCTTATGCGGTCACAGCTCAGTGTCTCCACAGTG 1020
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 QY 1021 GCCCTGTAGCGGCAAGCAGGACAGGTCTCTCTGCAATCTGTTCTCTGAGGAACTCAA 1080
 Db 1021 GCCCTGTAGCGGCAAGCAGGACAGGTCTCTCTGCAATCTGTTCTCTGAGGAACTCAA 1080
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 Db 1081 GTTTGGTTCGAGAAATATGTTCTTCAATCCCGCTGTTTATTTTACACACCTTAGA 1140
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 Db 1141 AACATTTCCAGATCTGTGATGCGGAGCAATGATCTTTAAAGAGGTGTGGGTCTT 1200
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Db 1201 TCCCAACCTGAGGATTTCTGAAAGGTTTCAAGGTTCAATATTATTTAATGCTTCAAGCATG 1260
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 Db 1381 TTTCTTCCCTCACCACAGCAATGAGTACTTAAGCAATATATTTGTTGATTTCCCAT 1440
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 Db 1561 CGCATTTGACTGCTGTTTATATGCTATCATGTGCAAGAACCATTAGCATTTGATGCA 1620
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RESULT 14
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 ID ACD29334 standard; cDNA; 1695 BP.
 XX AC ACD29334;
 XX AC
 DT 27-AUG-2003 (first entry)
 XX AC
 DE Novel human secreted and transmembrane polypeptide cDNA #94.
 XX Human; secreted and transmembrane protein; PRO; viral infection;
 KW tumour growth; retinal disorder; injury; sight loss;
 KW retinitis pigmentosa; age-related macular degeneration;
 KW sport-related joint problem; articular cartilage defect; osteoarthritis;
 KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;
 KW kidney disorder; mesangial cell function; Berger disease; nephropathy;
 KW celiac disease; dermatitis; Crohn disease; neuropathy;
 KW cardiac insufficiency disorder; peripheral neuropathy;
 KW diabetic peripheral neuropathy; autonomic neuropathy;
 KW reduced motility of the gastrointestinal tract;
 KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;
 KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
 KW Refsum's disease; gene; SB.
 XX Homo sapiens.
 OS
 XX US2003049633-A1.
 XX
 XX 13-MAR-2003.
 PD
 XX 16-OCT-2001; 2001US-00978585.
 PF
 XX 17-OCT-1997; 97US-0062250P.
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DT 04-DEC-2003 (first entry)
DE Human PRO polynucleotide sequence #94.
XX
XX
KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW cell death; neuropathy; neuropathy related disease;
KW Charcot-Marie-Tooth disorder; Refsum's disease; Krabbe's disease;
KW chromosome mapping; gene mapping; genetic disorder; septic shock;
KW antibacterial; immunosuppressive; neuroprotective; gene; ss.
XX
OS Homo sapiens.
FN US2003045462-A1.
XX
XX 06-MAR-2003.
XX
FF 16-OCT-2001; 2001US-00978608.
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XX 17-OCT-1997; 97US-0062250P.
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OM nucleic - nucleic search, using sw model

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8 805.4 47.8 829 12 BG677521
9 800 47.5 844 12 BG679254
10 796.8 47.3 817 13 BQ889304
11 759.2 45.1 794 12 BG677005
12 754.4 44.8 860 12 BG679890
13 742.4 44.1 759 13 B0733808
14 722.8 42.9 1665 11 AX076112
15 715 42.4 722 13 BX106404
16 714.6 42.4 817 12 BG400382
17 699 41.5 702 13 B0740478
18 699 41.5 702 13 CA418578
19 691.8 41.1 701 13 BQ575170
20 691.4 41.0 902 13 BQ922380
21 690.8 41.0 705 13 BQ448215
22 681.6 40.5 756 12 BG681049
23 668 39.6 702 12 B0721407
24 662.4 39.3 688 14 CB550107
25 653 38.8 1668 11 AK004615
26 642.2 38.1 649 14 CK004613
27 638.6 37.9 770 12 BG699665
28 629 37.3 636 14 CB673369
29 627 37.2 627 12 B0706236
30 624.6 37.1 858 12 BG572071
31 618.6 36.7 707 12 BG619277
32 612.6 36.4 629 9 AV733062
33 611.8 36.3 925 12 BG622267
34 611.8 36.3 1128 12 B1757518
35 611 36.2 642 14 CB216697
36 610 36.2 614 9 AV851293
37 604.2 35.9 620 14 CB675415
38 595 35.3 728 12 BG700377
39 593 35.2 596 13 B0736999
40 591 35.1 617 12 B0991866
41 590.4 35.0 646 12 BG399290
42 590.2 35.0 793 14 CB959955
43 589.2 35.0 610 12 BG687741
44 588 34.9 715 12 BG700847
45 587 34.8 595 12 BM669121

5 835 49.6 858 12 BG696197
6 809.8 48.1 851 13 B0716973
7 805.4 47.8 937 9 AL570175
8 805.4 47.8 829 12 BG677521
9 800 47.5 844 12 BG679254
10 796.8 47.3 817 13 BQ889304
11 759.2 45.1 794 12 BG677005
12 754.4 44.8 860 12 BG679890
13 742.4 44.1 759 13 B0733808
14 722.8 42.9 1665 11 AX076112
15 715 42.4 722 13 BX106404
16 714.6 42.4 817 12 BG400382
17 699 41.5 702 13 B0740478
18 699 41.5 702 13 CA418578
19 691.8 41.1 701 13 BQ575170
20 691.4 41.0 902 13 BQ922380
21 690.8 41.0 705 13 BQ448215
22 681.6 40.5 756 12 BG681049
23 668 39.6 702 12 B0721407
24 662.4 39.3 688 14 CB550107
25 653 38.8 1668 11 AK004615
26 642.2 38.1 649 14 CK004613
27 638.6 37.9 770 12 BG699665
28 629 37.3 636 14 CB673369
29 627 37.2 627 12 B0706236
30 624.6 37.1 858 12 BG572071
31 618.6 36.7 707 12 BG619277
32 612.6 36.4 629 9 AV733062
33 611.8 36.3 925 12 BG622267
34 611.8 36.3 1128 12 B1757518
35 611 36.2 642 14 CB216697
36 610 36.2 614 9 AV851293
37 604.2 35.9 620 14 CB675415
38 595 35.3 728 12 BG700377
39 593 35.2 596 13 B0736999
40 591 35.1 617 12 B0991866
41 590.4 35.0 646 12 BG399290
42 590.2 35.0 793 14 CB959955
43 589.2 35.0 610 12 BG687741
44 588 34.9 715 12 BG700847
45 587 34.8 595 12 BM669121

ALIGNMENTS

RESULT 1
BM809019 1019 bp mRNA linear EST 05-MAR-2002
LOCUS AGENCOURT 6618019 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5734462
DEFINITION 5' RNA Sequence.
ACCESSION BM809019.1 GI:19125842
VERSION BM809019.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1019)
NHL-MGC <http://mgc.nci.nih.gov/>
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: Invitrogen
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM12739 row: m column: 23
High quality sequence stop: 661.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	895	53.1	1019	BM809019	BM809019 AGENCOURT
2	890.2	52.8	916	CA975881	CA975881 AGENCOURT
3	846.4	50.2	976	BG578414	BG578414 606225062
4	839.2	49.8	953	AL543855	AL543855 AL543855

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

FEATURES
source

Location/Qualifiers
1. .1019
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5734462"
/tissue_type="hippocampus"
/lab_host="DH10B"
/clone_lib="NIH MGC 124"
/notes="Organ: brain; Vector: pCMV-SPORT6; Site 1: EcorV
(destroyed); Site 2: NotI; RNA source male hippocampus,
age 27. Library is oligo-dT primed and directionally
cloned (Scorv site is destroyed upon cloning). Average
insert size 1.4 kb, insert size range 0.9-4 kb. Library is
normalized and enriched for full-length clones and was
constructed by C. Gruber (Invitrogen). Research Genetics
tracking code 012."

ORIGIN

Query Match 53.1%; Score 895; DB 12; Length 1019;
Best Local Similarity 95.5%; Pred. No. 3.3e-120;
Matches 942; Conservative 0; Mismatches 41; Indels 3; Gaps 2;
QY 619 TCTTCTCAGGATGAAGACAAATATATATGTTATGAAGACATTTTACCAAGG 678
DB 11 TCTTCTCAGGATGAAGACAAATATATGTTATGAAGACATTTTACCAAGG 70
QY 679 TCAGTTTATACATTTATAGCTCGTGCAGAAAGCTTCCAGATGGAGACCATCTCT 738
DB 71 TCAGTTTATACATTTATAGCTCGTGCAGAAAGCTTCCAGATGGAGACCATCTCT 130
QY 739 TGTGCTCAGACTTCATCAGAGCTGCTTTTATCAAAAAGGGGAAATCAATGCTTTTC 798
DB 131 TGTGCTCAGACTTCATCAGAGCTGCTTTTATCAAAAAGGGGAAATCAATGCTTTTC 190
QY 799 CTTTTAAAAAATGCTTTTATGTTGTCATACGTCTACTATACATCTGAGCTTTTAA 858
DB 191 CTTTTAAAAAATGCTTTTATGTTGTCATACGTCTACTATACATCTGAGCTTTAA 250
QY 859 GCGCCGGAGGAAACATGAGCTTGTGAGACATTTTCAATTCAGTGTGCTCAATTCCT 918
DB 251 GCGCCGGAGGAAACATGAGCTTGTGAGACATTTTCAATTCAGTGTGCTCAATTCCT 310
QY 919 AGCTTGGGAAGCTTCGCTTAGAGTCTTGGGCTCGGCCTCGGCACAGTGCACGGGCTCC 978
DB 311 AGCTTGGGAAGCTTCGCTTAGAGTCTTGGGCTCGGCCTCGGCACAGTGCACGGGCTCC 370
QY 979 TGGGCTTATGGCGGTCACAGCTCAGTGTGATCTCCACAGTGGCCCTGTAGCGGGCAA 1038
DB 371 TGGGCTTATGGCGGTCACAGCTCAGTGTGATCTCCACAGTGGCCCTGTAGCGGGCAA 430
QY 1039 GCAGGAGCAGTCTCTCTGATCTGTTCTCTGAGGAATCAAGTTTGGTTCAGAAAA 1098
DB 431 GCAGGAGCAGTCTCTCTGATCTGTTCTCTGAGGAATCAAGTTTGGTTCAGAAAA 490
QY 1099 TGTGCTTCATTCCTCCCTGGTTAAATTTTACACACCTTAGGAAACATTTCCAGATCCTG 1158
DB 491 TGTGCTTCATTCCTCCCTGGTTAAATTTTACACACCTTAGGAAACATTTCCAGATCCTG 550
QY 1159 TGTATGGCAGACAAATGATCTTAAAGAGGTGTGGGGTCTTTCCCAACCTGAGGATTC 1218
DB 551 TGTATGGCAGACAAATGATCTTAAAGAGGTGTGGGGTCTTTCCCAACCTGAGGATTC 610
QY 1219 TGAAGGTTACAGGTTCAATTTAATGCTTCAGAGCATGTGAGGTTCGCAACATGTT 1278
DB 611 TGAAGGTTACAGGTTCAATTTAATGCTTCAGAGCATGTGAGGTTCGCAACATGTT 670
QY 1279 CAGCAAAAACCTTAGGAGAAAATCTTAAAAATATATGATATGCGCAATACAGCTTAC 1338
DB 671 CAGCAAAAACCTTAGGAGAAAATCTTAAAAATATATGATATGCGCAATACAGCTTAC 730
QY 1339 AGACACATTCGTTGACAGAGGAAACCTTCAAGCATGTTCTTCCCTCCACCAAA 1398

DB 731 AGACACACATCTCTGTTGACAGGGAACCTTCAAGCATGTTTCTTCCCTCCACCAA 790
QY 1399 CAGAACATCAGTACTTAAGCAATATATTTGATTTCCCATGTAATCTTCAATGTTAA 1458
DB 791 CAGAACATCAGTACTTAAGCAATATATTTGATTTCCCATGTAATCTTCAATGTTAA 850
QY 1459 ACAGTCAGTCTCTTTTGAAGAGCTAAGATGACCATGCG-CCCTTCTCTGTACATATA 1517
DB 851 ACAGTCAGTCTCTTTTGAAGAGCTAAGATGACCATGCGCGCCCTTCTCTGTACATATA 910
QY 1518 CCCTTAAAGAACCCGCC--TCCACACACTGCCGCCCATGATATATGCGCATTTGTTACTGCTG 1575
DB 911 CCCTTAAAGAACCCGCCCTTCAAAAATGCGCCCATGATATGCGCATTTGTTACTGCTG 970
QY 1576 TGTATATGCTATGTACATGTCAGAA 1601
DB 971 CTGGGGTTTATATGCTATGTGTACAA 996

RESULT 2
CA975881
LOCUS 916 bp mRNA linear EST 06-JAN-2003
DEFINITION AGENCOURT_8954747 Lupski_sciatic_nerve Homo sapiens cDNA clone
IMAGE:6202274 5', mRNA sequence.
CA975881
VERSION CA975881.1 GI:27508535
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 916)
NIH-MGC http://mgi.nci.nih.gov/.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupeki
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM13620 Row: b Column: 03
High quality sequence stop: 685.
Location/Qualifiers
1. .916
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6202274"
/sex="male"
/tissue_type="sciatic nerve"
/dev_stages="adult, 70 yr"
/lab_host="DH10B"
/clone_lib="Lupski_sciatic_nerve"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
NotI; Site_2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TGACATGCTAGATCGAGCGCCCT(15)-3' and
5'-GACTAGTCTAGATCGAGCGCCCT(15)-3'. Size selected >
1 kb for average insert length 1.87 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
College of Medicine) and is available through Life
Technologies."

FEATURES
source

1. .916
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6202274"
/sex="male"
/tissue_type="sciatic nerve"
/dev_stages="adult, 70 yr"
/lab_host="DH10B"
/clone_lib="Lupski_sciatic_nerve"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
NotI; Site_2: SalI; cDNA made by oligo-dt priming.
Directionally cloned using the following adaptors:
5'-TGACATGCTAGATCGAGCGCCCT(15)-3' and
5'-GACTAGTCTAGATCGAGCGCCCT(15)-3'. Size selected >
1 kb for average insert length 1.87 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
College of Medicine) and is available through Life
Technologies."

ORIGIN

Query Match 52.8%; Score 890.2; DB 14; Length 916;
Best Local Similarity 98.9%; Pred. No. 1.7e-119;
Matches 906; Conservative 0; Mismatches 9; Indels 1; Gaps 1;

684 TTTTACATTTTATAGCTGGTGGAGAGCTTCCAGATGGGAGACCATCTCTCTGTGC 743
 Db 1 TTTTACATTTTATAGCTGGTGGAGAGCTTCCAGATGGGAGACCATCTCTCTGTGC 60
 QY 744 TCCAGACTTCATCACAGGCTGCTTTTATCAAAAAGGGGAAACATCATGCTTCTCTTTT 803
 Db 61 TCCAGACTTCATCACAGGCTGCTTTTATCAAAAAGGGGAAACATCATGCTTCTCTTTT 120
 QY 804 TAAAAAATGCTTTTGTATTTCTGCATACGTCACATATACATCTGAGCTTTATAGCGCC 863
 Db 121 TAAAAAATGCTTTTGTATTTCTGCATACGTCACATATACATCTGAGCTTTATAGCGCC 180
 QY 864 CGGAGGAAACAATGAGCTTGGTGGACACATTTCAATGCAAGTGTCTCCATTCCTAGCTT 923
 Db 181 CGGAGGAAACAATGAGCTTGGTGGACACATTTCAATGCAAGTGTCTCCATTCCTAGCTT 240
 QY 924 GGGAGCTTCCTGCTAGAGTCTCGGCTGGGCTGGGACAGCTCCAGGGCTCTCTGGGC 983
 Db 241 GGGAGCTTCCTGCTAGAGTCTCGGCTGGGCTGGGACAGCTCCAGGGCTCTCTGGGC 300
 QY 984 TTATGCGCGTACAGCTCAGTGTGACATCCAGTGGGCTCTGAGCGGCGGCAAGCAGG 1043
 Db 301 TTATGCGCGTACAGCTCAGTGTGACATCCAGTGGGCTCTGAGCGGCGGCAAGCAGG 360
 QY 1044 AGCAGGCTCTCTGCACTGCTCTGAGGAACTCAAGTTTGGTGGCAGAAAATGTGC 1103
 Db 361 AGCAGGCTCTCTGCACTGCTCTGAGGAACTCAAGTTTGGTGGCAGAAAATGTGC 420
 QY 1104 TTCAATCCCCCTGGTAAATTTTACACACCTTAGGAAACATTTCCAAAGATCTGTGATG 1163
 Db 421 TTCAATCCCCCTGGTAAATTTTACACACCTTAGGAAACATTTCCAAAGATCTGTGATG 480
 QY 1164 GCGAGCAATATGATCTTAAAGAGGTGGGCTCTTCCCAACCTGAGGATTTCTGAAA 1223
 Db 481 GCGAGCAATATGATCTTAAAGAGGTGGGCTCTTCCCAACCTGAGGATTTCTGAAA 540
 QY 1224 GGTTCAGGTTCAATATTTAATGCTTCAAGAGCATGTGAGTTTCCCAACCTGTCAGCA 1283
 Db 541 GGTTCAGGTTCAATATTTAATGCTTCAAGAGCATGTGAGTTTCCCAACCTGTCAGCA 600
 QY 1284 ABAACCTTAGGAAACCTTAAATATATATGATACATGCGCAATACACAGCTACAGCA 1343
 Db 601 ABAACCTTAGGAAACCTTAAATATATATGATACATGCGCAATACACAGCTACAGCA 660
 QY 1344 CACATTCTGTGCAAGGAAACCTTCAAGCATGTTTCTTCCCTCACCACCAACAGAA 1403
 Db 661 CACATTCTGTGCAAGGAAACCTTCAAGCATGTTTCTTCCCTCACCACCAACAGAA 720
 QY 1404 CATGCACTAAGCAATATATTTGATTTCCCATGTTTCTTCAATGTTAAACAGT 1463
 Db 721 CATGCACTAAGCAATATATTTGATTTCCCATGTTTCTTCAATGTTAAACAGT 780
 QY 1464 GCAGTCTCTTTCGAAAGCTAAGATGACCATGCG-CCCTTTCTCTGTACATATACCCCT 1522
 Db 781 GCAGTCTCTTTCGAAAGCTAAGATGACCATGCGCCCTTTCTCTGTACATATACCCCT 840
 QY 1523 AAGAAGCCCTTCCACACATGCCCCCAGTATATGCGCATGTACTGCTGTGTATA 1582
 Db 841 AAGAAGCCCTTCCACACATGCCCCCAGTATATGCGCATGTACTGCTGTGTATA 1582
 QY 1583 TGTATGTACATGTCA 1598
 Db 901 TGTATGTACATGTCA 916

RESULT 3
 BG678414
 LOCUS 976 bp mRNA linear EST 01-MAY-2001
 DEFINITION 602625082F1 NCI_OGAP_Skn4 Hmo sapiens cDNA clone IMAGE:4750214 5',
 mRNA sequence.
 BG678414
 ACCESSION
 VERSION BG678414.1 GI:13909811
 KEYWORDS EST.

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 976)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: James Cleaver, M.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLNL0604 row: k column: 15
 High quality sequence stop: 864.

FEATURES
 Location/Qualifiers
 1..976
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4750214"
 /tissue_type="squamous cell carcinoma"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NCI OGAP Skn4"
 /note="Organ: skin; Vector: pCMV-SPORE6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
 Average insert size 1.5kb. Library constructed by Life
 Technologies. Note: this is a NCI_OGAP Library."

ORIGIN

Query Match 50.2%; Score 846.4; DB 12; Length 976;
 Best Local Similarity 97.7%; Pred. No. 3.6e-113;
 Matches 891; Conservative 0; Mismatches 16; Indels 5; Gaps 3;

QY 616 CTTTCTTTCTCACAGCATAAGACACAAATATATTTATGTTATGAAGCACATTTTACCAA 675
 Db 1 CTTTCTTTCTCACAGCATAAGACACAAATATATTTATGTTATGAAGCACATTTTACCAA 60
 QY 676 CGGTCAAGTTTTTACATTTTATAGCTGCTGGGAAAGGTTCCAGATGGGAGACCCATCTC 735
 Db 61 CGGTCAAGTTTTTACATTTTATAGCTGCTGGGAAAGGTTCCAGATGGGAGACCCATCTC 120
 QY 736 TCTTGTGCTCCAGATCTTCATCACAGGCTGCTTTTATCAAAAAGGGGAAACATCATGCT 795
 Db 121 TCTTGTGCTCCAGATCTTCATCACAGGCTGCTTTTATCAAAAAGGGGAAACATCATGCT 180
 QY 796 TTCTTTTAAAAAATGCTTTTGTATTTGTCTCATACGTCACTATATACATCTGAGCTTTA 855
 Db 181 TTCTTTTAAAAAATGCTTTTGTATTTGTCTCATACGTCACTATATACATCTGAGCTTTA 240
 QY 856 TAAGCGCCCGGAGGAAACAATGAGCTTGGTGACACATTTTATGTCAGTGTGCTCCATT 915
 Db 241 TAAGCGCCCGGAGGAAACAATGAGCTTGGTGACACATTTTATGTCAGTGTGCTCCATT 300
 QY 916 CTTAGCTTGGGAAGCTTCCGCTTAGAGGTCTGCGGCTCTGGGCAAGCTGCGGAGCTC 975
 Db 301 CTTAGCTTGGGAAGCTTCCGCTTAGAGGTCTGCGGCTCTGGGCAAGCTGCGGAGCTC 360
 QY 976 TCCTGGGCTTATGGCCGCTCACAGCTCAGTGTGACCTCCAGTGGGCCCTGTAGCGGG 1035
 Db 361 TCCTGGGCTTATGGCCGCTCACAGCTCAGTGTGACCTCCAGTGGGCCCTGTAGCGGG 420
 QY 1036 CAAGCAGGAGAGGCTCTCTCTGCACTGTTCTCTGAGGAACTCAAGTTTGGTTGCCAGAA 1095
 Db 421 CAAGCAGGAGAGGCTCTCTCTGCACTGTTCTCTGAGGAACTCAAGTTTGGTTGCCAGAA 480
 QY 1096 AATCTGCTTCAATCCCCCTGGTTAATTTTACACACCTTAGGAAACATTTCCAGATC 1155
 Db 481 AATCTGCTTCAATCCCCCTGGTTAATTTTACACACCTTAGGAAACATTTCCAGATC 540


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QY 1156 CTGTGATGGCGAGACAAATGATCCTTAAAGAAAGTGTGGGGTCTTTCCCAACCTGAGGAT 1215
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QY 1216 TTCTGAAGGTTACAGAGTTCAATATTTAATGCTTTCAAGAGATGAGGTCCCAACAC 1275
Db 601 TTCTGAAGGTTACAGAGTTCAATATTTAATGCTTTCAAGAGATGAGGTCCCAACAC 660
QY 1276 TGTGAGCAAAAACCTTAGGAGAGAACTTAAATAATATATGAATACATGCGCAATACACAGC 1335
Db 661 TGTGAGCAAAAACCTTAGGAGAGAACTTAAATAATATATGAATACATGCGCAATACACAGC 720
QY 1336 TACAGACACACATCTGTTGACAGAGAAACCTTCAAGAGATGTTTCTTCCCTCAGCA 1395
Db 721 TACAGACACACATCTGTTGACAGAGAAACCTTCAAGAGATGTTTCTTCCCTCAGCA-CA 779
QY 1396 CAACAGAACATGACGACTTAAAGCAATATATTGTTGATTCCTCCATGTTCAATGT 1455
Db 780 TAAACAGAACATGACGACTTAAAGCAATATATTGTTGATTCCTCCATGTTCAATGT 839
QY 1456 TAAACAGAGT--CAGTCCCTTTTCG-AAAGCTAAGATGACCATGCGCCTTCTCTCTGTA 1511
Db 840 TTAACAGAGTCCGACGCTCTTTTCGAAAGCTAAGATGACCATGCGCCTTCTCTCTGTA 899
QY 1512 CATATACCTTA 1523
Db 900 CATATACCTTA 911

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RESULT 4
AL543855
LOCUS
DEFINITION
AL543855 Homo sapiens PIACENTA COT 25-NORMALIZED Homo sapiens cDNA
clone CS0D1005Y122 5-PRIME, mRNA sequence.
AL543855
VERSION
AL543855.2 GI:1265700
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 953)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On Feb 15, 2001 this sequence version replaced gi:12876334.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 3123.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CS0D1005B11Q1&cluster=3123.r. Contact :
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Faraday Avenue Genoscope sequence ID : CS0D1005B11Q1.
Location/Qualifiers
1. .953
/organism="Homo sapiens"
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/db_xref="taxon:9606"
/clone="CS0D1005Y122"
/tissue_type="PIACENTA COT 25-NORMALIZED"
/notes="1st strand cDNA was primed with a NotI-oligo (dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

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FEATURES
source
1. .953
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0D1005Y122"
/tissue_type="PIACENTA COT 25-NORMALIZED"
/notes="1st strand cDNA was primed with a NotI-oligo (dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

```

ORIGIN

```

Query Match 49.8%; Score 839.2; DB 9; Length 953;
Best Local Similarity 96.6%; Pred. No. 4e-112;
Matches 862; Conservative 22; Mismatches 5; Indels 3; Gaps 3;
QY 707 GAAAGGCTTCAGATGGAGACCCATCTCTCTTGTGTCAGACTTCATCAGGCTGCT 766
Db 62 GGAATGGCTTCAGATGGAGACCCATCTCTCTTGTGTCAGACTTCATCAGGCTGCT 121
QY 767 TTTTATCAAAAGGGGAAAACCTCATGCTTTCCTTTTAAAAAATGCTTTTGTATTG 826
Db 122 TTTTATCAAAAGGGGAAAACCTCATGCTTTCCTTTTAAAAAATGCTTTTGTATTG 181
QY 827 TCCATACGCTCATATACATCTGAGCTTTATAAGCCCGGAGGAGAACATGAGCTTGGTG 886
Db 182 TCCATACGCTCATATACATCTGAGCTTTATAAGCCCGGAGGAGAACATGAGCTTGGTG 241
QY 887 GACACAT-TTCATTGCGAGTGTGCTCCATTCTAGCTTGGGAAAGCTTCCGCTTAGAGGTC 945
Db 242 GACACATATTCAATGCGAGTGTGCTCCATTCTAGCTTGGGAAAGCTTCCGCTTAGAGGTC 301
QY 946 CTGGCGCTCCGACACAGCTCCACGGGCTCT-CCTGGGCTTATGGCGGTACAGCTCA 1004
Db 302 CTGGCGCTCCGACACAGCTCCACGGGCTCTTACCTGGGCTTATGGCGGTACAGCTCA 361
QY 1005 GT-GTGAATCCACAGTGGCCCTGTAGCCGGGCAAGCAGGAGAGGCTCTCTGCAATCTG 1063
Db 362 GTAGTGAATCCACAGTGGCCCTGTAGCCGGGCAAGCAGGAGAGGCTCTCTGCAATCTG 421
QY 1064 TTTCTGAGGAACTCAAGTGTGGTTCAGAAAAATGCTTCTATCCCGCTGGTTAAT 1123
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QY 1484 AGATGACCATGCGCCCTTCTCTGTACATATACCTTAAAGAACGCCCTCCACAC 1543
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RESULT 5
BG596197
LOCUS
DEFINITION
602659321P1 NCI_CGAP_Skn3 Homo sapiens cDNA clone IMAGE:4902404 5',
mRNA sequence.
ACCESSION
BG596197
VERSION
BG596197.1 GI:13961096
KEYWORDS
EST.

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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
JOURNAL 1 (bases 1 to 858)
COMMENT NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: James Cleaver, M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA
Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10696 row: j column: 05
High quality sequence stop: 852.
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/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NCI_CGAP_Skn3"
/note="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dr.
Average insert size 1.5kb. Library constructed by Life
Technologies. Note: this is a NCI_CGAP Library."

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Best Local Similarity 99.8%; Pred. No. 1.7e-111;
Matches 857; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
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QY 722 GGGAGACCATCTCTCTGTGTCAGACTTCATCAGAGCTGCTTTTATCAAAAAGG 781
Db 61 GGGAGACCATCTCTCTGTGTCAGACTTCATCAGAGCTGCTTTTATCAAAAAGG 120
QY 782 GAAACTCATGCTTTTCCCTTTTAAATGCTTTTGTATTTGTCATGTCATAT 841
Db 121 GAAACTCATGCTTTTCCCTTTTAAATGCTTTTGTATTTGTCATGTCATAT 180
QY 842 ACATCTGAGCTTTATAGCGCCGCGGAGGAACAATGAGCTTGTGAGACATTTATTGC 901
Db 181 ACATCTGAGCTTTATAGCGCCGCGGAGGAACAATGAGCTTGTGAGACATTTATTGC 240
QY 902 AGTGTGCTCCATCTAGCTGGAGGCTTCGGCTTAGAGTCTCGGCGCTCGGCACA 961
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QY 1022 CCCTGTAGCGGCGAGCAGAGGAGGCTCTCTGCACTGTTCTCTGAGGACTCAG 1081
Db 361 CCCTGTAGCGGCGAGCAGAGGAGGCTCTCTGCACTGTTCTCTGAGGACTCAG 420
QY 1082 TTTGGTTGCCAGAAATGCTTCATCCCGCTGTTAAATTTTACACACCCCTAGGAA 1141
Db 421 TTTGGTTGCCAGAAATGCTTCATCCCGCTGTTAAATTTTACACACCCCTAGGAA 480
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QY 1442 TAATTTCTCAATGTTAAACAGTGCAGTCTCTTTTTCGAAAGCTTAGATGACCATGG-CCC 1500
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Db 840 TTTCTCTCTGTACATATACC 858

RESULT 6
LOCUS BQ716973 851 bp mRNA linear EST 16-JUL-2002
DEFINITION AGENCOURT 8241306 Lupski_sympathetic_trunk Homo sapiens cDNA clone
IMAGE:6187072 5', mRNA sequence.
ACCESSION BQ716973
VERSION BQ716973.1 GI:21855870
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 851)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM13580 row: h column: 17
High quality sequence stop: 667.
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/sex="male"
/tissue_type="sympathetic trunk"
/dev_stage="adult, 16 yr"
/lab_host="DH10B"
/clone_lib="Lupski_sympathetic_trunk"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site 1:
NotI; site 2: SalI; cDNA made by oligo-dr priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCG-3' and
5'-GACATGTTCTAGTCGAGGCGGCGCTT(15)-3'. Size selected >
1 kb for average insert length 1.9 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
College of Medicine); available through Life
Technologies."

FEATURES
source

Query Match	48.1%;	Score 809.8;	DB 13;	Length 851;
Best Local Similarity	99.0%;	Pred. No. 7.6e-108;		
Matches 825;	Conservative 0;	Mismatches 7;	Indels 1;	Gaps 1;
QY	854	TATAAGCGCCGGAGGAA	CAATGAGCTTGGTGGACACATTTCAATTCAGATGTTGCTCCA	913
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QY	914	TTCTCTAGCTTGGAAAGCTTCCGGCTTACAGTCTCTGGGCTCGGCACAGCTGCCAGGGC	973	
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QY	974	TCCTCTGGGCTTATGGCCGGTCCACAGCCTCAGTGTGTGACTCCACAGTGGCCCCCTGTAGCCG	1033	
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QY	1034	GGCAAGCAGCAGCAGAGGTCCTCTGCATCTCTCTCTCAGGAACTCAAGTTTGGTTGGCCAG	1093	
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QY	1154	TCCTGTGATGGCAGACAAATGATCCTTTAAAGAAGGTGTGGGTCTTTCCCAACCTGAGG	1213	
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QY	1214	ATTCTGAAAGGTTTCAAGGTTCAATTTAAATGCTTTCAGAACATGTGAGGTTCCCAAC	1273	
Db	361	ATTCTGAAAGGTTTCAAGGTTCAATTTAAATGCTTTCAGAACATGTGAGGTTCCCAAC	420	
QY	1274	ACTGTACGCAAAAACCTTAGGAGAAAACCTTTAAAAATATATGAATACATGCGCAATACACA	1333	
Db	421	ACTGTACGCAAAAACCTTAGGAGAAAACCTTTAAAAATATATGAATACATGCGCAATACACA	480	
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Db	541	CACAAACAGAACATGCAGTACTTAAAGCAATATATTGTGATTTCCCATGTAAATTTTCAAT	600	
QY	1454	GTTAAACAGTGCAGTCTCTTTTCAAGAGCTAAGATGCCATGCCGCTTTCCCTCTGTACA	1513	
Db	601	GTTAAACAGTGCAGTCTCTTTTCAAGAGCTAAGATGCCATGCCGCTTTCCCTCTGTACA	660	
QY	1514	TATA - CCCTTTAAGAACGCCCTCCACACACTGCCCCCCAGTATATGCCGCAATGTACTG	1572	
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QY	1573	CTGTGTTATATGCTATGTACATGTACAGAACCATTAGCATTTGCATGCAGGTTTCATATTC	1632	
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RESULT 7					
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LOCUS	AL570175	Homo sapiens	937 bp	mRNA	linear EST 31-MAY-2003
DEFINITION	AL570175	clone CSODI005Y122 3-PRIME,	COT 25-NORMALIZED	Homo sapiens	cDNA
ACCESSION	AL570175				
VERSION	AL570175.2				
KEYWORDS	EST.				
SOURCE	AL570175				
ORGANISM	Homo sapiens	(human)			

22

ORGANISM

QY 1262 GAGGTTCCACACACTGTGACGACAAACCTTTAGGAGAAACCTTAAATATATATGATACAT 1321
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 QY 1322 GCGCAATACACAGCTACAGACACACAT-TCGTGTGACAGGAGAAACCTTCAAGCATGT 1380
 DB 335 GCGCAATACACAGCTACAGACACACAT-TCGTGTGACAGGAGAAACCTTCAAGCATGT 276
 QY 1381 TTTCTTCCCTCACCACACAGACATGACG-TACTAAAGCAATATATTTGTGATCCCA 1439
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 DB 215 TGTAAATCTTCAATGTTAAACAGTGCAGTCTCTTTTCGAAAGCTTAAGATGACATGCGCC 156
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 DB 155 CTTTCTCTGTACATATACCTTAAAGAACCCCTCCACACATGCTCCCTCCAGTATATG 96
 QY 1560 CCGCAATGCTGCTGTATATGCTATGATGATGATGATGATGATGATGATGATGATG 1619
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 QY 1620 AGGTTTCATATCTTCTCTTA 1638
 DB 35 NGGTTCTNTCTTCTTA 17

RESULT 8
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 ACCESSION BG677521.1 GI:13908918
 VERSION EST.
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 SOURCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 ORGANISM Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 829)
 AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1998)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-rc@mail.nih.gov
 Tissue Procurement: James Cleaver, M.D.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLAM10604 row: i column: 16
 High quality sequence stop: 827.
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 ORIGIN
 Query Match 47.8%; Score 805.4; DB 12; Length 829;
 Best Local Similarity 99.6%; Pred. No. 3.3e-107;

Matches 828; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
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 DB 61 TTCAGATGGAGACCATCTCTCTTGTGCTCCAGACTTTCACAGGCTGCTTTTATC 120
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 QY 1434 TCCCATGTAAATTTCTCAATGTTAAACAGTGCAGTCTCTTTTCGAAAGCTA 1484
 DB 780 TCCCATGTAAATTTCTCAATGTTAAACAGTGCAGTCTCTTTTCGAAAGCTA 829

RESULT 9
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 DEFINITION mRNA sequence.
 ACCESSION BG679254
 VERSION BG679254.1 GI:13910651
 KEYWORDS Homo sapiens (human)
 SOURCE EST.
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 844)
 AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: James Cleaver, M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10609 row: j column: 09
High quality sequence stop: 839.
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/note="Organ: Skin; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dr. Average insert size 1.5kb. Library constructed by Life Technologies. Note: this is a NCI CGAP Library."
ORIGIN
Query Match 47.5%; Score 800; DB 12; Length 844;
Best Local Similarity 98.7%; Pred. No. 2e-106;
Matches 838; Conservative 0; Mismatches 6; Indels 5; Gaps 3;
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QY 771 ATCAAAAGGGGAAACATCATGCTTCCTTTTAAATAATGCTTTTATTGTGCA 830
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QY 1551 CAGTATATG 1559
Db 836 CAGTATATG 844
RESULT 10
BQ889304
LOCUS BQ889304
DEFINITION AGENCOURT 8482592 Lupski dorsal root ganglion Homo sapiens cDNA
clone IMAGE:6185842 5', mRNA sequence.
ACCESSION BQ889304
VERSION BQ889304.1 GI:22281318
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 817)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
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/dev_stage="adult, 36 yr"
/lab_host="DH10B"
/clone_lib="Lupski dorsal root ganglion"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site 1: NotI; Site 2: SalI; cDNA made by oligo-dr priming. Directionally cloned using the following adaptors:
5'-TCGACCCACGCTCG-3', and
5'-GACTAGTCTTAGACGCGAGCGCCCT(15)-3'. Size selected > 1 kb for average insert length 1.7 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine) and is available through Life Technologies."
ORIGIN
Query Match 47.3%; Score 796.8; DB 13; Length 817;
Best Local Similarity 98.8%; Pred. No. 5.9e-106;
Matches 801; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 875 ATGAGCTTGTGGACACATTTTCATTGTCAGTGTGTCCTCATTCTTCTAGCTTGGGAGCTTCC 934
Db 5 ATGAGCTTGTGGACACATTTTCATTGTCAGTGTGTCCTCATTCTTCTAGCTTGGGAGCTTCC 64
QY 935 GCTTAGAGTCTTGGCGCTCGGACAGCTGCGACAGCTTCTCTGGGCTTATGCGCGT 994
Db 65 GCTTAGAGTCTTGGCGCTCGGACAGCTGCGACAGCTTCTCTGGGCTTATGCGCGT 124
QY 995 CACAGCTCAGTGTGATCTCCACAGTGGCCCTGTAGCCGGGCAAGCAGGAGCTTCT 1054
Db 125 CACAGCTCAGTGTGATCTCCACAGTGGCCCTGTAGCCGGGCAAGCAGGAGCTTCT 184
QY 1055 CTGATCTGTTCTCTGAGGAACCTCAAGTGTGGTGGCCAGCAAAATGTGCTTCTCCCT 1114
Db 185 CTGATCTGTTCTCTGAGGAACCTCAAGTGTGGTGGCCAGCAAAATGTGCTTCTCCCT 244
QY 1115 CTGATCTGTTCTCTGAGGAACCTCAAGTGTGGTGGCCAGCAAAATGTGCTTCTCCCT 1174
Db 245 CTGATCTGTTCTCTGAGGAACCTCAAGTGTGGTGGCCAGCAAAATGTGCTTCTCCCT 304
QY 1175 GATCCTTAAAGAGGTGTGGGCTTCTCCCACTGAGGATTCGAGGTTCTCAGGT 1234
Db 305 GATCCTTAAAGAGGTGTGGGCTTCTCCCACTGAGGATTCGAGGTTCTCAGGT 364
QY 1235 TCAATATTTAATGCTTCAGAGCATGTGAGGTTCCTCAACACTGTCTCAGCAAAACCTTAGG 1294
Db 365 TCAATATTTAATGCTTCAGAGCATGTGAGGTTCCTCAACACTGTCTCAGCAAAACCTTAGG 424
QY 1295 AGAAACCTTAAATATATGATATGATGCGCATACACAGCTACAGACACATCTCTGT 1354
Db 425 AGAAACCTTAAATATATGATATGATGCGCATACACAGCTACAGACACATCTCTGT 484
QY 1355 GACAAGGGAACCTTCAAGCATGTTTCTTCCCTCACCAACAGCAACATGCACTACT 1414
Db 485 GACAAGGGAACCTTCAAGCATGTTTCTTCCCTCACCAACAGCAACATGCACTACT 544
QY 1415 AAGCAATATATGTTGATTTCCCATGTAATCTTCAATGTTAAACAGTGCAGTCTCTT 1474
Db 545 AAGCAATATATGTTGATTTCCCATGTAATCTTCAATGTTAAACAGTGCAGTCTCTT 604
QY 1475 TCGAAGCTAAGATGACCATGCGCCCTTCTCTGATACATACCTTAAAGAGCGCCCT 1534
Db 605 TCGAAGCTAAGATGACCATGCGCCCTTCTCTGATACATACCTTAAAGAGCGCCCT 664
QY 1535 TCACACACTGCCCCCAGTATATGCGCATGTACTGCTGTTATATGCTATGTATCAT 1594
Db 665 TCACACACTGCCCCCAGTATATGCGCATGTACTGCTGTTATATGCTATGTATCAT 724
QY 1595 GTCAGAAACATTAGCATGCAATGCAAGTTCATATCTTCTTAAGATGGAAGTAA 1654
Db 725 GTCAGAAACATTAGCATGCAATGCAAGTTCATATCTTCTTAAGATGGAAGTAA 784
QY 1655 AATATATTTGAATGTAAAAAAGAAAAA 1685
Db 785 AATATATTTGAATGTAAAAAAGAAAAA 815

RESULT 11
BG677005 794 bp mRNA linear EST 01-MAY-2001
LOCUS 602623644F1 NCI_CGAP_Skn4 Homo sapiens cDNA clone IMAGE:4748603 5',
mRNA sequence.
ACCESSION BG677005
VERSION BG677005.1 GI:13908402
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (base 1 to 794)
REFERENCE NIH-MGC <http://mgi.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE

JOURNAL
COMMENT

Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: scapbs@mail.nih.gov
Tissue Procurement: James Cleaver, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM10600 row: h column: 12
High quality sequence stop: 787.
Location/Qualifiers
1..794
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4748603"
/tissue_type="squamous cell carcinoma"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NCI CGAP Skn4"
/note="Organ: skin; Vector: pCMV-SPORT6; Site: 1: NotI;
Site: 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.5kb. Library constructed by Life
Technologies. Note: this is a NCI_CGAP Library."

FEATURES
source

Query Match 45.1%; Score 759.2; DB 12; Length 794;
Best Local Similarity 98.9%; Pred No. 1.6e-100;
Matches 775; Conservative 0; Mismatches 8; Indels 1; Gaps 1;
QY 654 GTATGAAGCATTTTACCAACGGTCAGTTTATACATTTTATAGCTGCGTGGCAAGGC 713
Db 1 GTATGAAGCATTTTACCAACGGTCAGTTTATACATTTTATAGCTGCGTGGCAAGGC 60
QY 714 TTCCAGATGGGAGACCCATCTCTGTGTCTCCAGCTTCATCAGGCTCTCTTTTATC 773
Db 61 TTCCAGATGGGAGACCCATCTCTGTGTCTCCAGCTTCATCAGGCTCTCTTTTATC 120
QY 774 AAAAGGGGAAACATCATGCTTCTTTTAAAAATGCTTTTGTATTTGTCATAC 833
Db 121 AAAAGGGGAAACATCATGCTTCTTTTAAAAATGCTTTTGTATTTGTCATAC 180
QY 834 GTCACTATACATCTGAGCTTTATAGCCCGGGAGGAAACAATGAGCTTGGTGGACACAT 893
Db 181 GTCACTATACATCTGAGCTTTATAGCCCGGGAGGAAACAATGAGCTTGGTGGACACAT 240
QY 894 TTCATTGAGTGTGCTCCATTCCTAGCTTGGGAGCTTCCGCTTAGAGGTCCTGGCGCC 953
Db 241 TTCATTGAGTGTGCTCCATTCCTAGCTTGGGAGCTTCCGCTTAGAGGTCCTGGCGCC 300
QY 954 TCGGCACAGCTCCACGCGCTCTCTGGGCTTATGGCGGTCACAGCTCAGTGTGACTC 1013
Db 301 TCGGCACAGCTCCACGCGCTCTCTGGGCTTATGGCGGTCACAGCTCAGTGTGACTC 360
QY 1014 CACAGTGGCCCTGTAGCCGGGCAAGCAGGAGCGTCTCTGCTCATCTGTTCTCTGAGG 1073
Db 361 CACAGTGGCCCTGTAGCCGGGCAAGCAGGAGCGTCTCTGCTCATCTGTTCTCTGAGG 420
QY 1074 AACTCAAGTTTGGTGGCAGAAAAATGCTTCAATTCCTCCCTGTTTAAATTTTACAC 1133
Db 421 AACTCAAGTTTGGTGGCAGAAAAATGCTTCAATTCCTCCCTGTTTAAATTTTACAC 480
QY 1134 CCTAGGAAACATTTCCAAAGATCTGTGATGGCGAGACAAATGATCCTTAAAGAGGTGTG 1193
Db 481 CCTAGGAAACATTTCCAAAGATCTGTGATGGCGAGACAAATGATCCTTAAAGAGGTGTG 540
QY 1194 GGGTCTTTCCCAACTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAAATGCTTCAG 1253
Db 541 GGGTCTTTCCCAACTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAAATGCTTCAG 600
QY 1254 AAGCATGTGAGTTCCTCCCAACTGTCAGCAAAACCTTAGAGGAAACTTAAATATAT 1313

Db 601 AAGCATGTGAGTTCCCAACACACTGTGACGAAAAACCTTAGGAGAAAACTTAAAAATAT-T 659

Qy 1314 GAATACATGGCAATACACAGCTACAGACACACATCTGTGTGACAGGAGAAAAACCTTCAA 1373

Db 660 GAATACATGGCAATACACAGCTACAGACACACATCTGTGTGACAGGAGAAAAACCTTCAA 719

Qy 1374 AGCATGTTCTTCCCTACCAACACAGAACTGACGACTAAAGCAATATATTTGTGAT 1433

Db 720 AGCATGTTCTTCCCTACCAACACAGAACTGACGACTAAAGCAATATATTTGTGAT 779

Qy 1434 TCCC 1437

Db 780 TCCC 783

RESULT 12

BG679890 860 bp mRNA linear EST 01-MAY-2001

LOCUS 60263939F1 NCI_CGAP_Skn4 Homo sapiens cDNA clone IMAGE:4751327 5',

DEFINITION mRNA sequence.

ACCESSION BG679890

VERSION BG679890.1 GI:13911287

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE NIH-MGC http://mgi.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished (1999)

JOURNAL Contact: Robert Strausberg, Ph.D.

COMMENT Email: cgap8-remail.nih.gov

Tissue Procurement: James Cleaver, M.D.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov

Plate: LIA10607 row: i column: 24

High quality sequence stop: 858.

Location/Qualifiers

1. 860

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4751327"

/tissue_type="squamous cell carcinoma"

/lab_host="DH10B (TI phage-resistant)"

/clone_lib="NCI_CGAP_Skn4"

/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.5kb. Library constructed by Life Technologies. Note: this is a NCI_CGAP Library."

ORIGIN

Query Match 44.8%; Score 754.4; DB 12; Length 860;

Best Local Similarity 97.3%; Pred. No. 7.9e-100;

Matches 831; Conservative 0; Mismatches 16; Indels 7; Gaps 6;

Qy 637 GACCAAAATTATATTTCTTTGAGCACTTTTACCACGCTCAGTTTACATTTTAT 696

Db 1 GACCAAAATTATATTTCTTTGAGCACTTTTACCACGCTCAGTTTACATTTTAT 60

Qy 697 AGCTCGTGGCAAGGCTTCAGATGGGAGACCCATCTCTCTTGTGCTCCAGCTTCATC 756

Db 61 AGCTCGTGGCAAGGCTTCAGATGGGAGACCCATCTCTCTTGTGCTCCAGCTTCATC 120

Qy 757 ACAGGCTGCTTTTATCAAAAGGGGAAACATCATGCTTCTCTTTTAAAAATGCTTT 816

Db 121 ACAGGCTGCTTTTATCAAAAGGGGAAACATCATGCTTCTCTTTTAAAAATGCTTT 180

Qy 817 TTT-GTATTTGTCATACGTCACTATACATCTGAGCTTTTATAAGCGCCCGGAGGAAACA 875

Db 181 TTTGGTATTTTGTCCATACGTCACTATACATCTGAGCTTTTATAAGCGCCCGGAGGAAACA 240

Qy 876 TGAGCTTGTGCGACACATTTCAATTCAGTGTGCTCCATTCCTAGCTTTGGGAACTTCCG 935

Db 241 TGAGCTTGTGCGACACATTTCAATTCAGTGTGCTCCATTCCTAGCTTTGGGAACTTCCG 300

Qy 936 CTTAGAGTCTCTGGCGCTCGGCAACAGTCCAGCGGCTCTCTCTGGGCTTATGGCGGTC 995

Db 301 CTTAGAGTCTCTGGCGCTCGGCAACAGTCCAGCGGCTCTCTCTGGGCTTATGGCGGTC 360

Qy 996 ACAGCTCAGTGTGACTCCACAGTGGGCCCTGTAGCGGGCAAGCAGGAGCAGGTCTCTC 1055

Db 361 ACAGCTCAGTGTGACTCCACAGTGGGCCCTGTAGCGGGCAAGCAGGAGCAGGTCTCTC 420

Qy 1056 TGCATCTCTCTGAGGAACTCAAGTTTGGTTCGCCAGAAA--ATGTGCTTCATTCGCC 1113

Db 421 TGCATCTCTCTGAGGAACTCAAGTTTGGTTCGCCAGAAAATGATGTGCTTCATTCGCC 480

Qy 1114 CTTGTTTAAATTTTACACACCTTAGGAAACATTTCCAAAGATCTCTGTGATGCGGAGACAAA 1173

Db 481 CTTGTTTAAATTTTACACACCTTAGGAAACATTTCCAAAGATCTCTGTGATGCGGAGACAAA 540

Qy 1174 TGATCCTTAA--AGAGGTGTGGGCTTTTCCAACTGAGGATTTCTGAA--AGGTTACA 1231

Db 541 TGATCCTTAA--AGAGGTGTGGGCTTTTCCAACTGAGGATTTCTGAA--AGGTTACA 600

Qy 1232 GTTTCATATTTTAACTCTCAGAGCATGTGAGTTCCTCAACACTGTGAGCAAAAACCTT 1291

Db 601 GTTTCATATTTTAACTCTCAGAGCATGTGAGTTCCTCAACACTGTGAGCAAAAACCTT 660

Qy 1292 AGGAGAAACCTTAAATAATATGATACATCGCAATACACAGTTCACAGACACATCTCT 1351

Db 661 AGGAGAAACCTTAAATAATATGATACATCGCAATACACAGTTCACAGACACATCTCT 720

Qy 1352 GTTGACAA--GGGAAACCTTCAAGCATGTGTTCTTCCCTCACCACACAGAACATGAG 1410

Db 721 GTTGACAA--GGGAAACCTTCAAGCATGTGTTCTTCCCTCACCACACAGAACATGAG 779

Qy 1411 TACTAAAGCAATATATTTGTGATTCCTCCATGTAAATTTTCAATGTTAAACAGTGCAGTCC 1470

Db 780 TACTAAAGCAATATATTTGTGATTCCTCCATGTAAATTTTCAATGTTAAACAGTGCAGTCC 839

Qy 1471 TCTTTCGAAAGCTA 1484

Db 840 TCTTTCGAGAGCTA 853

RESULT 13

BU733808/c

LOCUS UI-B-CK1-aga-d-03-0-UI-sl UI-B-CK1 Homo sapiens cDNA clone

DEFINITION UI-B-CK1-aga-d-03-0-UI 3', mRNA sequence.

ACCESSION BU733808

VERSION BU733808.1 GI:23661081

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS 1 (bases 1 to 759)

TITLE Ronaldo,M.F., Lennon,G. and Soares,M.B.

Normalization and subtraction: two approaches to facilitate gene discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)

MEDLINE 97044477

PUBMED 889548

COMMENT Contact: Soares, MB

Coordinated Laboratory for Computational Genomics

University of Iowa

375 Newton Road, 4156 MEBRF, Iowa City, IA 52242, USA

Tel: 319 335 8250

Fax: 319 335 9565
 Email: bento-soares@uiowa.edu
 Tissue Procurement: Dr. Gregg Hegeman
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com)
 The following repetitive elements were found in this cDNA sequence: 1-40, >A1_rich#Low_complexity
 Seq primer: M13 FORWARD
 POLYA=Yes.

FEATURES
 Location/Qualifiers
 1..759
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-E-CK1-aga-d-03-0-UI"
 /tissue_type="Retina Foveal and Macular"
 /dev_stage="adult"
 /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
 /clone_lib="UI-E-CK1"
 /note="Organ: eye; Vector: p773-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; UI-E-CK1 is a normalized cDNA library containing the following tissue(s): Retina Foveal and Macular. The library was constructed according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into p773-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GTCC. This library was created for the program, Gene Discovery in the Visual System, supported by National Eye Institute (NEI).
 TAG_TISSUE=Foveal and Macular Retina
 TAG_LIB=UI-E-CK1
 TAG_SEQ=GTCC"

ORIGIN
 Query Match 44.1%; Score 742.4; DB 13; Length 759;
 Best Local Similarity 99.6%; Pred. No. 4.5e-98;
 Matches 754; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 929 GCTTCCGCTTAGAGTCTCTGCGCTCGGCACAGCTGCGCGGCTCTCTGGGCTTATG 988
 DB 759 GCTTCCGCTTAGAGTCTCTGCGCTCGGCACAGCTGCGC-GGTCTCTCTGGGCTTATG 701
 QY 989 GCGGTCACAGCTCAGTGTGACTCCACAGTGGCCCTGTAGCCGGGCAACGAGGAG 1048
 DB 700 GCGGTCACAGCTCAGTGTGACTCCACAGTGGCCCTGTAGCCGGGCAACGAGGAG 641
 QY 1049 GTCTCTCTGATCTGTTCTCTGAGGAATCAAGTTGGTTGTCGAGAAATGTGTTTCAT 1108
 DB 640 GTCTCTCTGATCTGTTCTCTGAGGAATCAAGTTGGTTGTCGAGAAATGTGTTTCAT 581
 QY 1109 TCCCGCTGGTAAATTTTACACACCTAGGAAACATTCCAGATCTCTGATGGGAG 1168
 DB 580 TCCCGCTGGTAAATTTTACACACCTAGGAAACATTTCGAAGATCTCTGATGGGAG 521
 QY 1169 ACAATGATCTTAAAGAGGTGTGGGGTCTTTCACACCTGAGGATTTCTGAAGGTTTC 1228
 DB 520 ACAATGATCTTAAAGAGGTGTGGGGTCTTTCACACCTGAGGATTTCTGAAGGTTTC 461
 QY 1229 ACAGGTTCAATTTAATGCTTCAGAGCATGTGAGGTCCCAACATGTCAGCAAAAC 1288
 DB 460 ACAGGTTCAATTTAATGCTTCAGAGCATGTGAGGTCCCAACATGTCAGCAAAAC 401
 QY 1289 CTTAGGAGAACTTAAATATATGATACATGCGCAATACACAGCTACAGACACAT 1348

DB 400 CTTAGGAGAAACTTTAAAAATATATGAATACATGCGCAATACACAGCTACAGACACAT 341
 QY 1349 TCTGTTGACAGGGAAACCTTCAAGCATGTTCTTTCCCTCACCACACAGAACATCGC 1408
 DB 340 TCTGTTGACAGGGAAACCTTCAAGCATGTTCTTTCCCTCACCACACAGAACATCGC 281
 QY 1409 AGTACTAAAGCAATATATTTGTGATTCCCATGTAATTTCTCAATGTTAAACAGTGCAGT 1468
 DB 280 AGTACTAAAGCAATATATTTGTGATTCCCATGTAATTTCTCAATGTTAAACAGTGCAGT 221
 QY 1469 CTTCTTTCCAAAGCTAAGATGACCATGGCCCTTCCCTCTGTACATATACCTTTAAGAAC 1528
 DB 220 CTTCTTTCCAAAGCTAAGATGACCATGGCCCTTCCCTCTGTACATATACCTTTAAGAAC 161
 QY 1529 GCGCCCTCCACACACTGCCCCCAGTATATGCGCATTTACTGCTGTATATATCTAT 1588
 DB 160 GCGCCCTCCACACACTGCCCCCAGTATATGCGCATTTACTGCTGTATATATCTAT 101
 QY 1589 GTACATGTCAGAAACCATTAGCATTCGATCGAGTTTCATATTTCTTAAAGATGGAAG 1648
 DB 100 GTACATGTCAGAAACCATTAGCATTCGATTCGAGTTTCATATTTCTTCTAAGATGGAAG 41
 QY 1649 TAATAAAATATATTTGAAATGTAAAAAATAAAAAA 1685
 DB 40 TAATAAAATATATTTGAAATGTAAAAAATAAAAAA 4

RESULT 14
 AK076112
 LOCUS
 DEFINITION
 AK076112 1665 bp mRNA linear HTC 20-SEP-2003
 Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810410F08 product:small inducible cytokine subfamily B (Cys-X-Cys), member 14, full insert sequence.
 AK076112 GI:26345085
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 Mus musculus
 HTC; CAP trapper.
 Mus musculus (house mouse)
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
 1
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning
 Meth. Enzymol. 303, 19-44 (1999)
 99279253
 PUBMED
 10349636
REFERENCE
 2
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 20499374
 PUBMED
 11042159
REFERENCE
 3
 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kusunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Chata, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 20530913
 PUBMED
 11076861
REFERENCE
 4
 The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)
REFERENCE 5

AUTHORS The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.

TITLE Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

JOURNAL Nature 420, 563-573 (2002)

REFERENCE 6 (bases 1 to 1665)

AUTHORS Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Aono, H., Arai, A., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F., Imomani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Taya, Y., Yamamura, T., Yamashita, I., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.

TITLE Direct Submission

JOURNAL Submitted (16-APR-2002) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-resgsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)

COMMENT cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Please visit our web site for further details.

URL: http://genome.gsc.riken.go.jp/

URL: http://fantom.gsc.riken.go.jp/

Location/Qualifiers

1. .1665

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="FANTOM_DB:2810410F08"

/db_xref="MGI:1897254"

/db_xref="taxon:10090"

/clone="2810410F08"

/tissue_type="whole body"

/clone_lib="RIKEN full-length enriched mouse cDNA library"

/dev_stage="10, 11 days embryo"

221..520

/note="unnamed protein product; putative

small inducible cytokine subfamily B (Cys-X-Cys), member 14 (MGI:MGI:1888514)"

/codon_start=1

/protein_id="BAC36192.1"

/db_xref="GI:26345086"

/translations="MRLAAALLLLALLCASRVDSKCKSRGPKIRYSDVKKLEMKPYPHCEERWIVITTKSMRYRGQEHCLPKLQSTKPKIKWYRWNEKRRVYEE"

polya_signal 1643..1648

/note="putative"

polya_site 1665

/note="putative"

ORIGIN

Qy Query Match 42.9%; Score 722.8; DB 11; Length 1665;
 Db Best Local Similarity 71.5%; Pred. No. 2.4e-95;
 Matches 1215; Conservative 0; Mismatches 357; Indels 128; Gaps 15;

Qy 20 GCAGCGCACGGCCACGACAGCCCTGGGATCCACGACGGCGCGACCGGACCGACGAGA 79
 Db 39 GCGCGGACCGGACGACGACGCGCAGGACGACCCATCGACGGCGGTAGCTGGAGCGGCGA 98

Qy 80 GCGGGAAGGCGCGCCCGGCGCAGAGAAAGCGGACGAGAGCTGGGTGGGTCTCCGCGCG 139
 Db 99 GCAGAGCAGAGAGAGGGGTGCTTGAACCGAGAACCAAGCCGCGGGGATCCCGCGCG 158

140 CCGCTCCGACGGGCCACGCGCCCTCCCAATGTCCTCTGCTCCCAAGCGCGCCCTCCGGTTC 199
 Db 159 CCGCACGACAGCGCGCGCCCTCTCTGCTCCCTGCTCCCTCCCTCCCTCCCTCCCGGCC 217

Qy 200 AGCATGAGGCTCTCTGCGCGCGCGCGCTCTCTGCTCTCTGCTCTCTGCTCTCTGCTCTCT 259
 Db 218 AGCATGAGGCTCTCTGCGCGCGCGCGCTCTCTGCTCTCTGCTCTCTGCTCTCTGCTCTCT 277

Qy 260 GTGAGCGGGTCCAAATGCAAGTGTCTCCCGAAGGGAACCAAGATCCGGTACAGCGACGTG 319
 Db 278 GTGAGCGGGTCCAAATGCAAGTGTCTCCCGAAGGGAACCAAGATCCGGTACAGCGACGTG 337

Qy 320 AAGAAGCTGGAAATGAAGTGTCTCCCGAAGGGAACCAAGATCCGGTACAGCGACGTG 379
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Qy 1315 AA 1316

us-09-978-189-369.rst

Mon Apr 26 15:46:52 2004

Db 721 AA 722

Search completed: April 26, 2004, 08:49:50
Job time : 4605 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 26, 2004, 07:33:10 ; Search time 1852 Seconds
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4102.071 Million cell updates/sec

Title: US-09-978-189-369
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1685	100.0	1685	9	US-09-978-295A-369
3	1685	100.0	1685	9	US-09-978-697-369
4	1685	100.0	1685	9	US-09-978-192A-369
5	1685	100.0	1685	9	US-09-999-832A-369
6	1685	100.0	1685	10	US-09-978-189-369
7	1685	100.0	1685	10	US-09-978-608A-369
8	1685	100.0	1685	10	US-09-978-585A-369
9	1685	100.0	1685	10	US-09-978-191A-369
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16 1685 100.0 1685 10 US-09-978-423A-369 Sequence 369, App
17 1685 100.0 1685 10 US-09-978-193A-369 Sequence 369, App
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38 1685 100.0 1685 13 US-10-145-088A-369 Sequence 369, App
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40 1685 100.0 1685 13 US-10-145-129A-369 Sequence 369, App
41 1685 100.0 1685 13 US-10-165-038A-369 Sequence 369, App
42 1685 100.0 1685 13 US-10-165-353A-369 Sequence 369, App
43 1685 100.0 1685 13 US-10-167-600-369 Sequence 369, App
44 1685 100.0 1685 13 US-10-170-481A-369 Sequence 369, App
45 1685 100.0 1685 13 US-10-172-039A-369 Sequence 369, App

ALIGNMENTS

RESULT 1
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; Sequence 1, Application US/09816920
; Patent No. US2002011918A1
; GENERAL INFORMATION:
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Roth, Iris
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING BOLEKINE
; FILE REFERENCE: P1192-2 (US)
; CURRENT APPLICATION NUMBER: US/09/816,920
; CURRENT FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US 60/064,249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: US 60/083,336
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 1
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-816-920-1

Query Match 100.0%; Score 1685; DB 9; Length 1685;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1685; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
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; Sequence 369, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey

;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
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;; PRIOR FILING DATE: 1998-05-15
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Db	1561	CGCATTTGCTGCTGTTATGCTATGATGTCAGTCCAGAACCATAGCATTCATGCA	1620
Qy	1621	GGTTTCATATTTCTTCTAAGATGGAAGTAAATAATATATTTGAAATGTTAAAAA	1680
Db	1621	GGTTTCATATTTCTTCTAAGATGGAAGTAAATAATATATTTGAAATGTTAAAAA	1680
Qy	1681	AAAAA 1685	
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RESULT 3

US-09-978-697-369
Sequence 369, Application US/09978697
Patent No. US20020165284A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavir, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P26301C27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29

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DB	241	GGCGCTGTACACCGCGCGTGTGGACGGGTCAAATGCAAGTGCCTCCGGAGAGGACCCAA	300
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QY	361	GAAGATGGTTATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACGAGGACCTGCGCT	420
DB	361	GAAGATGGTTATCATCACCAAGAGCGTGTCCAGGTACCGAGGTACGAGGACCTGCGCT	420
QY	421	GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGGTACAAGCCCTGGAAACGAGAA	480
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QY	481	GGCAGGGTCTAGAAAGATAGGTTGAAAAA CCTCAGAAGGGAAAACTCCAAACCCAGTTG	540
DB	481	GGCAGGGTCTAGAAAGATAGGTTGAAAAA CCTCAGAAGGGAAAACTCCAAACCCAGTTG	540
QY	541	GGAGACTCTGCAAGGACTTTGCGATTAAAAA AAAAAAAAAAAAAAAAAAAAAA	600
DB	541	GGAGACTCTGCAAGGACTTTGCGATTAAAAA AAAAAAAAAAAAAAAAAAAAAA	600
QY	601	AAAAA AAAAAAAAAAGCTTTCTCTCACAGGCATAGACACAAATATATTTGTTATGA	660
DB	601	AAAAA AAAAAAAAAAGCTTTCTCTCACAGGCATAGACACAAATATATTTGTTATGA	660
QY	661	AGCAGCTTTTACCAACGGTCAGTTTTTACATTTATAGCTGCGTGGAAAGGCTTCAGA	720
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DB	781	GGAAAACTCATGCGCTTTCCCTTTTAAAAAATGCTTTTGTATTTGTCATACGCTCACTA	840
QY	841	TACATCTGAGCTTTATAAGCGCCGGGAGAA CAATGAGCTTGGTGACACATTTCAATTG	900
DB	841	TACATCTGAGCTTTATAAGCGCCGGGAGAA CAATGAGCTTGGTGACACATTTCAATTG	900
QY	901	CAGTGTGTCTCCATTCTTAGCTTTGGGAAGCTTCGCTTAGAGTTCCTGGGCGCTCGGCAC	960
DB	901	CAGTGTGTCTCCATTCTTAGCTTTGGGAAGCTTCGCTTAGAGTTCCTGGGCGCTCGGCAC	960
QY	961	AGTGCACCGGCTCTCTGGGCTTATGCGGCTTACAGGCTCAGTGTGACTCCACAGTG	1020
DB	961	AGTGCACCGGCTCTCTGGGCTTATGCGGCTTATGCGGCTTACAGGCTCAGTGTGACTCCACAGTG	1020
QY	1021	GCCCTCTAGCCGGGCAAGCAGGACAGGTCTCTCTGCACTGTCTCTGAGGAACCTCAA	1080
DB	1021	GCCCTCTAGCCGGGCAAGCAGGACAGGTCTCTCTGCACTGTCTCTGAGGAACCTCAA	1080
QY	1081	GTTTGGTGGCAGAAAATGCTTTCATTCGCCCTCGTTAAATTTTACACACCTCAGGA	1140
DB	1081	GTTTGGTGGCAGAAAATGCTTTCATTCGCCCTCGTTAAATTTTACACACCTCAGGA	1140
QY	1141	AACATTTCCAGATPCCTGTGATGCGGAGACAAATGATCCTTTAAAGAGGTTGGGGTCTT	1200
DB	1141	AACATTTCCAGATPCCTGTGATGCGGAGACAAATGATCCTTTAAAGAGGTTGGGGTCTT	1200
QY	1201	TCCCAACTCAGGATTTCTGAAAGGTTACAGGTTCAATATTTAATGCTTCAGAAAGCATG	1260
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DB 1261 TGAGTTCCCAACTGTCAGCAAAAAACCTTAGGAGAAAACTTAAAAATATATGAATACA 1320
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DB 1321 TGCGCAATACACAGCTACAGACACACATCTGTTGACAGGGAAACCTTCAAGCATGT 1380
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DB 1381 TTTCTTCCCTCACCACACAGCAATCGAGTACTTAAAGCAATATATTTGATGCCCAT 1440
QY 1441 GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTGAAAAGCTAAGATGACCATGGCCC 1500
DB 1441 GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTGAAAAGCTAAGATGACCATGGCCC 1500
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DB 1561 CGCATTTGACTGCTGTGTATATGCTATGTACATGTCAGAAACCATTAGCATTTGCATGCA 1620
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DB 1621 GCTTTCATATCTTTCTTAAGATGAAAGTAAATATATTTGAAATGTAAAAAATAA 1680
QY 1681 AAAAA 1685
DB 1681 AAAAA 1685

RESULT 4

US-09-978-192A-369
; Sequence 369, Application US/09978192A
; Patent No. US2002017553A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunes, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C9
; CURRENT APPLICATION NUMBER: US/09/978,192A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
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; PRIOR APPLICATION NUMBER: 60/080105
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; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
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; PRIOR APPLICATION NUMBER: 60/081070
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; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081203
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229
; PRIOR FILING DATE: 1998-04-09

781 GGAAGACATCATGCTCTTCTTTTAAAGAAATGCTTTTGTATTTGTCATCATGCTCACTA 840
781 GGAAGACATCATGCTCTTCTTTTAAAGAAATGCTTTTGTATTTGTCATCATGCTCACTA 840
841 TACATCTGAGCTTTTAAAGCCCGGAGGAA CAATGAGCTTGGTGGACACATTTCAATG 900
841 TACATCTGAGCTTTTAAAGCCCGGAGGAA CAATGAGCTTGGTGGACACATTTCAATG 900
901 CAGTGTGCTCATCTCTAGCTTGGGAGGCTTCGGCTTAGAGTCTCTGGGCTCTGGGAC 960
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961 AGCTGCCACGGGCTCTCTGGGCTTTATGCGGCTCAAGCTTCAAGTGTGCTCAAGTG 1020
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1021 GCCCTGTAGCCGGGCAAGCAGAGCAGGCTCTCTGCTATCTCTCTGAGGAATCTCAA 1080
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RESULT 5
US-09-999-832A-369
; Sequence 369, Application US/09999832A
; Publication No. US20020192706A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
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APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C63
CURRENT APPLICATION NUMBER: US/09/999,832A
CURRENT FILING DATE: 2001-10-24
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46	PRIOR	APPLICATION NUMBER:	60/085704	
47	PRIOR	FILING DATE:	1998-05-15	
48	PRIOR	APPLICATION NUMBER:	60/085697	

1	CGGAGACAACGCGAGAGCGCAGCGCAGCGGCCACAGACAGCCCTGGGCATCCACCGAGCG	60
	CGGAGACAACGCGAGAGCGCAGCGCAGCGGCCACAGACAGCCCTGGGCATCCACCGAGCG	60
61	CGCAGCCGAGCCACGACAGAGCCCGGAAGCGCGCCCGGCAGAGAAACGCGACAGAGCT	120
61	CGCAGCCGAGCCACGACAGAGCCCGGAAGCGCGCCCGGCAGAGAAACGCGACAGAGCT	120
121	GGGTGGGTCTCCGGGCGCGCGTCCGACGGGCGACGCGCCTCCCATGTCCCTGTCTCC	180
121	GGGTGGGTCTCCGGGCGCGCGTCCGACGGGCGACGCGCCTCCCATGTCCCTGTCTCC	180
181	ACGCGGGCGCCCTCCGGTCAGCATGAGCTTCTGGGGCGCGGCTGCTCTGTGTGTGT	240
181	ACGCGGGCGCCCTCCGGTCAGCATGAGCTTCTGGGGCGCGGCTGCTCTGTGTGTGT	240
241	GGCGCTGTACACCGCGGTGTGACGGGTCCAAATGCAAGTGCTCCCGAAGGGACCCAA	300
241	GGCGCTGTGTACACCGCGGTGTGACGGGTCCAAATGCAAGTGCTCCCGAAGGGACCCAA	300

QY 301 GATCCGCTACAGCGCTGAAGAAGCTGGAAATGAAGCCAAAGTACCGCACTCGGAGGA 360
DB 301 GATCCGCTACAGCGCTGAAGAAGCTGGAAATGAAGCCAAAGTACCGCACTCGGAGGA 360
QY 361 GAAGATGGTTATCATCAACCAAGAGCGTGTCCAGGTACCGAGTCCAGGAGCACTGCCT 420
DB 361 GAAGATGGTTATCATCAACCAAGAGCGTGTCCAGGTACCGAGTCCAGGAGCACTGCCT 420
QY 421 GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGGTCAACGCTCGAAGAGAA 480
DB 421 GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGGTCAACGCTCGAAGAGAA 480
QY 481 GCGCAGGGTCTAGGAAGATAGGGTGAAGAACTCAGAGGGGAAACCTCCAAACCAAGTTG 540
DB 481 GCGCAGGGTCTAGGAAGATAGGGTGAAGAACTCAGAGGGGAAACCTCCAAACCAAGTTG 540
QY 541 GGAGACTGTGCAAGAGCACTTTCAGATTAAAAAAGCAATTAAGGAAAGGAAAGGAAAGG 600
DB 541 GGAGACTGTGCAAGAGCACTTTCAGATTAAAAAAGCAATTAAGGAAAGGAAAGGAAAGG 600
QY 601 AAAAAAAGCAAGCTTTCCTTCTCAGAGGATAGAGACAAATATATATATATATATATAT 660
DB 601 AAAAAAAGCAAGCTTTCCTTCTCAGAGGATAGAGACAAATATATATATATATATATAT 660
QY 661 AGCACTTTTACCAACGGTCAGTTTATATATATATATATATATATATATATATATATAT 720
DB 661 AGCACTTTTACCAACGGTCAGTTTATATATATATATATATATATATATATATATATAT 720
QY 721 TGGGAGACCATCTCTCTGTGTCCAGACTTCATCAGAGGCTCTTTTATCAAAAGG 780
DB 721 TGGGAGACCATCTCTCTGTGTCCAGACTTCATCAGAGGCTCTTTTATCAAAAGG 780
QY 781 GGAAAACTCATGCTTTCCTTTTAAAAAATGCTTTTGTATTTTCTCCATACGTCACAT 840
DB 781 GGAAAACTCATGCTTTCCTTTTAAAAAATGCTTTTGTATTTTCTCCATACGTCACAT 840
QY 841 TACATCTGAGCTTATAGCGCCGGGAGGAAATGAGCTTGGTGGACACATTTTATG 900
DB 841 TACATCTGAGCTTATAGCGCCGGGAGGAAATGAGCTTGGTGGACACATTTTATG 900
QY 901 CAGTGTGTCTCCATCTCTAGCTTGGGAGCTTCCGCTTAGAGTCTCTGGCGCTGGCAC 960
DB 901 CAGTGTGTCTCCATCTCTAGCTTGGGAGCTTCCGCTTAGAGTCTCTGGCGCTGGCAC 960
QY 961 AGCTGCCACGGGCTCTCTGGGCTTATGCGGCTCAGCTCAGTGTGACTCCAGTG 1020
DB 961 AGCTGCCACGGGCTCTCTGGGCTTATGCGGCTCAGCTCAGTGTGACTCCAGTG 1020
QY 1021 GCCCTCTAGCGGCAAGCAGGAGGAGTCTCTGCACTCTCTCTGAGGAACTCAA 1080
DB 1021 GCCCTCTAGCGGCAAGCAGGAGGAGTCTCTGCACTCTCTCTGAGGAACTCAA 1080
QY 1081 GTTTGGTTGCCAGAAAAATGTCTTATTCCTCCCTGTTAAATTTTACACACCTTAGGA 1140
DB 1081 GTTTGGTTGCCAGAAAAATGTCTTATTCCTCCCTGTTAAATTTTACACACCTTAGGA 1140
QY 1141 AACATTTCCAGATCTGTGATGCGAGACAAATGATCCCTTAAGAGGTGTGGGTCTT 1200
DB 1141 AACATTTCCAGATCTGTGATGCGAGACAAATGATCCCTTAAGAGGTGTGGGTCTT 1200
QY 1201 TCCCAACTGAGGATTTCTGAAGGTTTACAGGTTTCAATATTTAATGCTTCAAGCATG 1260
DB 1201 TCCCAACTGAGGATTTCTGAAGGTTTACAGGTTTCAATATTTAATGCTTCAAGCATG 1260
QY 1261 TGAGGTTCCCAACTGTCTGAGCAAAAACCTTAGAGAAACTTAAATATATATATATAT 1320
DB 1261 TGAGGTTCCCAACTGTCTGAGCAAAAACCTTAGAGAAACTTAAATATATATATATAT 1320
QY 1321 TGCGCAATACAGCTACAGACACATCTGTGTTGACAAAGGAAACCTTCAAGCATGT 1380
DB 1321 TGCGCAATACAGCTACAGACACATCTGTGTTGACAAAGGAAACCTTCAAGCATGT 1380
QY 1381 TTCTTTCCCTCACCACAAAGCAATGCACTAAAGCAATATATTTGATTTCCCAT 1440

DB 1381 TTCTTTCCCTCACCACAAAGCAATGCACTAAAGCAATATATTTGATTTCCCAT 1440
QY 1441 GTAAATCTTCAAGTTAAACAGTGCAGTCTCTTTGAAAGCTTAAGATGACCATGGGCC 1500
DB 1441 GTAAATCTTCAAGTTAAACAGTGCAGTCTCTTTGAAAGCTTAAGATGACCATGGGCC 1500
QY 1501 TTTCCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGCCCCCAGTATATGC 1560
DB 1501 TTTCCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGCCCCCAGTATATGC 1560
QY 1561 GCAATTTACTGCTGTAT 1620
DB 1561 GCAATTTACTGCTGTAT 1620
QY 1621 GGTTCATATTTCTTTCTAAGATGGAAGTAAATAATATATATTTGAAATGTAAAAA 1680
DB 1621 GGTTCATATTTCTTTCTAAGATGGAAGTAAATAATATATATTTGAAATGTAAAAA 1680
QY 1681 AAAAA 1685
DB 1681 AAAAA 1685

RESULT 6

US-09-978-189-369
; Sequence 369, Application US/09978189
; Publication No. US2003004102A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10

PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21	PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21	PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23	PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27	PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28	PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30	PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05	PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-5-07	PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-08-13	PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-08-13	PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-08-15	PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085579

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/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697
/

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Query Match	100.0%	Score 1685;	DB 10;	Length 1685;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1685;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CGCGAGACAACGCGAGAGCGCAGCGCACGCGCACGACACAGACGCGCTGGGCAATCCACGACGG	60	
DBb	1	CGCGAGACAACGCGAGAGCGCAGCGCACGCGCACGACACAGACGCGCTGGGCAATCCACGACGG	60	
QY	61	CGCAGCGGAGCCACGACAGACCGGAAGCGCGCCCGCGGCAGAGAAGCCGAGCAGAGCT	120	
DBb	61	CGCAGCGGAGCCACGACAGACCGGAAGCGCGCCCGCGGCAGAGAAGCCGAGCAGAGCT	120	
QY	121	GGGTGGCGCTCTCCGGGCGCGCTCCGACAGCGGCGACGCGCTCCCATGTCTCTCTCTCC	180	
DBb	121	GGGTGGCGCTCTCCGGGCGCGCTCCGACAGCGGCGACGCGCTCCCATGTCTCTCTCTCC	180	
QY	181	AGCGCGCGCCCTCCGCTCAGCATGAGGCTCTGGCGCGCGCGCTCTCTCTCTCTCTCT	240	
DBb	181	AGCGCGCGCCCTCCGCTCAGCATGAGGCTCTGGCGCGCGCGCTCTCTCTCTCTCTCT	240	
QY	241	GGCGCTGTACACCGCGCGTGTGACGGGTGTCGAAATCAAGTGTCTCCGGAAGGACCCAA	300	
DBb	241	GGCGCTGTACACCGCGCGTGTGACGGGTGTCGAAATCAAGTGTCTCCGGAAGGACCCAA	300	
QY	301	GATCGCTTACGCGACGTGAAGAGCTGTGAAATGAAGCCAAAGTACCCGCACTGCGAGGA	360	
DBb	301	GATCGCTTACGCGACGTGAAGAGCTGTGAAATGAAGCCAAAGTACCCGCACTGCGAGGA	360	
QY	361	GAAGATGGTATATCATCACCAAGCGGTGTCCAGGTACCGAGGTCTGAGGACACTGGCT	420	
DBb	361	GAAGATGGTATATCATCACCAAGCGGTGTCCAGGTACCGAGGTCTGAGGACACTGGCT	420	
QY	421	GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGTCAACGGCTGGAACGAGAA	480	
DBb	421	GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGTCAACGGCTGGAACGAGAA	480	
QY	481	GGCAGGGCTCTACGAGAAATAGGTGAAACCTCTCAGAGGGAAGCAACTCCAAACGATTG	540	
DBb	481	GGCAGGGCTCTACGAGAAATAGGTGAAACCTCTCAGAGGGAAGCAACTCCAAACGATTG	540	
QY	541	GGAGACTTGTGCAAGGACTTTGCAGATTTAACCAAGGCAAGGCAAGGCAAGGCAAGGCA	600	
DBb	541	GGAGACTTGTGCAAGGACTTTGCAGATTTAACCAAGGCAAGGCAAGGCAAGGCAAGGCA	600	
QY	601	AAAAAAGGCAAGGCTTCTTCTCTCAGCGATAGCAGCAATATATATATATATATATAT	660	
DBb	601	AAAAAAGGCAAGGCTTCTTCTCTCAGCGATAGCAGCAATATATATATATATATATAT	660	
QY	661	AGCACTTTTACCAAGGCTCAGTTTATACATTTTATAGCTGCGTGCAGAAAGCTTCCAGA	720	
DBb	661	AGCACTTTTACCAAGGCTCAGTTTATACATTTTATAGCTGCGTGCAGAAAGCTTCCAGA	720	
QY	721	TGGGAGACCAATCTCTTGTGCTCCAGACTTCATCAGCGGTGCTTTTATATCAAAAGG	780	
DBb	721	TGGGAGACCAATCTCTTGTGCTCCAGACTTCATCAGCGGTGCTTTTATATCAAAAGG	780	
QY	781	GGAAACCTCATGCGCTTCTTCTTTTAAAAATGCTTTTGTATTTGTCCATACGTCACCTA	840	
DBb	781	GGAAACCTCATGCGCTTCTTCTTTTAAAAATGCTTTTGTATTTGTCCATACGTCACCTA	840	
QY	841	TACATCTCAGCTTTATAAGCGCCCGGAGGAAACAATGAGCTTGGTGGACACATTTTCATTG	900	
DBb	841	TACATCTCAGCTTTATAAGCGCCCGGAGGAAACAATGAGCTTGGTGGACACATTTTCATTG	900	
QY	901	CAGTGTCTCCATCTCCTAGCTTGGGAAGCTTCCGCTTAGAGCTCTCGCGCTCTCGCAC	960	

[illegible]

RESULT 7
US-09-978-608A-369
; Sequence 369, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Pilvaroff, Ellen
; APPLICANT: Pong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey

Db 1681 AAAA 1685

RESULT 8

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US-09-978-585A-369
; Sequence.369, Application US/09978585A5
; Publication No. US20030049633A1
; GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Baker Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan
/ APPLICANT: Ferrara, Napoleon
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertschen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Kuo, Sophia S.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James;
/ APPLICANT: Paoni, Nicholas P.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Shelton, David L.
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: Secreted and Transmembrane Proteins
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2630P1C15
/ CURRENT APPLICATION NUMBER: US/09/978-585A-369
/ CURRENT FILING DATE: 2001-10-16
/ NUMBER OF SEQ ID NOS: 624
/ Prior Application removed - See File Wrapper
/ SEQ ID NO 369
/ LENGTH: 1685
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-978-585A-369

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Query Match	100.0%;	Score 1585;	DB 10;	Length 1585;	
Best Local Similarity	100.0%;	Pred. No. 0;			
Matches 1685;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
1	CGGAGACAAGCGCAGAGCGCAGCGACGACGCGCCACAGACAGACCGCTCGGCGATCCACGACGG	60			
1	CGGAGACAAGCGCAGAGCGCAGCGCAGCGCCACAGACAGACCGCTCGGCGATCCACGACGG	60			
61	CGCAGCCGAGCCACAGACAGCGGAGCGCGCCCGCGGCGCAGAGAAGCCGACGAGCAGCT	120			
61	CGCAGCCGAGCCACAGACAGCGGAGCGCGCCCGCGGCGCAGAGAAGCCGACGAGCAGCT	120			
121	GGTGGCGTTCGCGGCGCGCTCCGACGGGCGCAGCGCCCTCCCCATGTCCCTGCTCCC	180			
121	GGTGGCGTTCGCGGCGCGCTCCGACGGGCGCAGCGCCCTCCCCATGTCCCTGCTCCC	180			
181	ACGCGCGCGCCCTCCGCTCAGCATGAGGCTCTGTGGCGGCGCGCTGTCTCTGTCTGCTGTCT	240			
181	ACGCGCGCGCCCTCCGCTCAGCATGAGGCTCTGTGGCGGCGCGCTGTCTCTGTCTGCTGTCT	240			
241	GGCGCTGTACACCGCGCGTGTGACACGGGTCCAAATGCAAGTGTCTCCGGAGGGACCCAA	300			
241	GGCGCTGTACACCGCGCGTGTGACACGGGTCCAAATGCAAGTGTCTCCGGAGGGACCCAA	300			
301	GATCCGCTACAGCGACGTGAAGAGCTGGAAATGAAGCCAAAGTACCCGCACTCGAGGA	360			

	DB	301	GATCCGGTACAGCGGAGGTGAGAAGCTGGAAATGAAGCAAAAGTACCGGCACCTCGGAGGA	360
	QY	361	GAAGATGGTTATCATCACCAAGAGCGTGTCAGSTACCAGAGTACAGGACACTGCCT	420
	DB	361	GAAGATGGTTATCATCACCAAGAGCGTGTCAGSTACCAGAGTACAGGACACTGCCT	420
	QY	421	GCA GCCAACGCTGAGAGCAGCACNAAGCGCTTCATCAAGTGGTACAAAGCGCTGGAACGAGAA	480
	DB	421	GCA CCCCAGCTGAGAGCAGCACCAAGCGCTTCATCAAGTGGTACAAAGCGCTGGAACGAGAA	480
	QY	481	GCGCAGGGTCTCAAGAAATAGGGTGA AAAA CCTCAGAAGGGAAAACTCCAACAACGATTG	540
	DB	481	GCGCAGGGTCTCAAGAAATAGGGTGA AAAA CCTCAGAAGGGAAAACTCCAACAACGATTG	540
	QY	541	GGAGACTGTGCAAAGGACTTTGCCAGTTTAAAAAAA AAAAAAAAAAAAAAAAAAAAAA	600
	DB	541	GGAGACTGTGCAAAGGACTTTGCCAGTTTAAAAAAA AAAAAAAAAAAAAAAAAAAAAA	600
	QY	601	AAAAAAAAAAAAAGCCCTTCTTCTCAGAGGCATAAGACACAAATTTATATTCTTATGA	660
	DB	601	AAAAAAAAAAAAAGCCCTTCTTCTCAGAGGCATAAGACACAAATTTATATTCTTATGA	660
	QY	661	AGCACTTTTACCAACGGTCAGTTTTTATTTATATAGCTGGTGGCAAGGCTTCCAGA	720
	DB	661	AGCACTTTTACCAACGGTCAGTTTTTATTTATAGCTGGTGGCAAGGCTTCCAGA	720
	QY	721	TGGAGAGCCCATCTCTTTGTGCTCCAGACTTCAPCACAGGCTCTTTTTATCAAAAAGG	780
	DB	721	TGGAGAGCCCATCTCTTTGTGCTCCAGACTTCAPCACAGGCTCTTTTTATCAAAAAGG	780
	QY	781	GGAAAACTCATGCTTTCCCTTTTAAAAAATGCTTTTTGTTATTTGCCATACGTCACTA	840
	DB	781	GGAAAACTCATGCTTTCCCTTTTAAAAAATGCTTTTTGTTATTTGCCATACGTCACTA	840
	QY	841	TACATCTGAGCTTTTAAGGCGCGGGAGGAACAATGAGCTTGGTGACACATTTCAATTG	900
	DB	841	TACATCTGAGCTTTTAAGGCGCGGGAGGAACAATGAGCTTGGTGACACATTTCAATTG	900
	QY	901	CAGTGTGCTCCATCTCTAGCTTGGGAAAGCTTCGCCITTAGAGTCTCTGGCGCTCTCGGCAC	960
	DB	901	CAGTGTGCTCCATCTCTAGCTTGGGAAAGCTTCGCCITTAGAGTCTCTGGCGCTCTCGGCAC	960
	QY	961	AGCTGCCACGGGCTCTCTGGGGTATGGCGGTGCACAGCCTCAGTGTGACTCCACAGTG	1020
	DB	961	AGCTGCCACGGGCTCTCTGGGGTATGGCGGTGCACAGCCTCAGTGTGACTCCACAGTG	1020
	QY	1021	GCCCCCTAGCCGGGCAAGCAGAGCAGGTCTCTCTGCATCTGTCTCTGAGGAACCTCAA	1080
	DB	1021	GCCCCCTAGCCGGGCAAGCAGAGCAGGTCTCTCTGCATCTGTCTCTGAGGAACCTCAA	1080
	QY	1081	GTTTGGTTGCCAGAAAAATGTCGTTCAATCCCGCTGCTTAATTTTTTACACCCCTAGGA	1140
	DB	1081	GTTTGGTTGCCAGAAAAATGTCGTTCAATCCCGCTGCTTAATTTTTTACACCCCTAGGA	1140
	QY	1141	AACATTTCCAAGATCTCTGTGATGGCGAGACAAATGATCCTTTAAAAGAAAGGTGTGGGGTCTT	1200
	DB	1141	AACATTTCCAAGATCTCTGTGATGGCGAGACAAATGATCCTTTAAAAGAAAGGTGTGGGGTCTT	1200
	QY	1201	TCCCAACTGAGATTTCTGAAAGGTTACAGGTTCAATATTTAATGCTTCAGAGCNTG	1260
	DB	1201	TCCCAACTGAGATTTCTGAAAGGTTACAGGTTCAATATTTAATGCTTCAGAGCNTG	1260
	QY	1261	TGAGGTTCCCAACA CACTGTGCAGAAAAA CCTTAGGAGAAAACTTAAAAATATATGAATACA	1320
	DB	1261	TGAGGTTCCCAACA CACTGTGCAGAAAAA CCTTAGGAGAAAACTTAAAAATATATGAATACA	1320
	QY	1321	TGGGCATACAGCTTACAGACACACTCTGTGGTGGACAGGGAAAA CTTCAAGCATGT	1380
	DB	1321	TGGGCATACAGCTTACAGACACACTCTGTGGTGGACAGGGAAAA CTTCAAGCATGT	1380
	QY	1381	TTCTTTCCCTTCA CCAACAAGAACATGCAGTACTTAAGCAATATATTGTGATTTCCCAT	1440

Db 1381 TTCTTTCCTCACCACACAGACATGCAGTACTAAAGCAATATATTGTGATTCCCAT 1440
Qy 1441 GTAATTTCTCAATCTTAAACAGTGCAGTCTCTTTCGAAAGCTAAGATGACCATGGCCC 1500
Db 1441 GTAAATTTCTCAATGTAAACAGTGCAGTCTCTTTCGAAAGCTAAGATGACCATGGCCC 1500
Qy 1501 TTCTCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGCCCCCAGTATATGC 1560
Db 1501 TTCTCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGCCCCCAGTATATGC 1560
Qy 1561 CGCATTTGACTGCTGTGTATATCTATGTACATGTGAGAACCATAGCATTTGCATGCA 1620
Db 1561 CGCATTTGACTGCTGTGTATATCTATGTACATGTGAGAACCATAGCATTTGCATGCA 1620
Qy 1621 GGTTCATATTTCTTCTTAAGATGAAAGTAATAAAATATATTTGAAATGTAAAAA 1680
Db 1621 GGTTCATATTTCTTCTTAAGATGAAAGTAATAAAATATATTTGAAATGTAAAAA 1680
Qy 1681 AAAAA 1685
Db 1681 AAAAA 1685

RESULT 9

US-09-978-191A-369
; Sequence 369, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C4
; CURRENT APPLICATION NUMBER: US/09/978,191A
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; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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; PRIOR FILING DATE: 1998-04-15

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RESULT 10

US-09-978-403A-369
; Sequence 369, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C17
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US/09/978,403A
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 1997-10-17
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;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1685; DB 10; Length 1685;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1685; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	61	CGCAGCGGAGCCAGCAGAGCGGAGCGCGCGCGCAGAGAAAGCGCAGAGAGCT	120
Qy	121	GGGTGGCGTCTCGGCGCGCGCTCGAGCGGCGCAGCGCGCTCCCATGTCTCTCTCC	180
Db	121	GGGTGGCGTCTCGGCGCGCGCTCGAGCGGCGCAGCGCGCTCCCATGTCTCTCTCC	180
Qy	181	ACGCGCGCGCGCTCGGCTCAGCATGAGGCTCTGCGCGCGCGCTCTCTCTCTCTCT	240
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Qy	241	GGCGCTGTACACCGCGCGTGTGAGCGGCTCCAAATGCAAGTGTCTCCGGAAGGACCA	300
Db	241	GGCGCTGTACACCGCGCGTGTGAGCGGCTCCAAATGCAAGTGTCTCCGGAAGGACCA	300
Qy	301	GATCCGCTACAGCGAGCTGAAGCTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	360
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Qy 481 GCGCAGGGTCTACGAAGATAGGTTGAAAAAAGCTCAGAGGGGAAAACTCCAAACCAAGTTG 540
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RESULT 11
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; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
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; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085697

Query Match	100.0%;	Score 1685;	DB 10;	Length 1685;
Best Local Similarity	100.0%;	Pred. No. 0;		

QY	1081	GTTTGGTTGCCAGAAAAATGTGCTTATCCCTCCCTGGTTAATTTTACACACCCCTAGGA	1140
DB	1081	GTTTGGTTGCCAGAAAAATGTGCTTATCCCTCCCTGGTTAATTTTACACACCCCTAGGA	1140
QY	1141	AACATTTTCCAAGATCCTGTGATGGCGAGACAATGATCCTTAAAGAAGGTGTGGGGTCTT	1200
DB	1141	AACATTTTCCAAGATCCTGTGATGGCGAGACAATGATCCTTAAAGAAGGTGTGGGGTCTT	1200
QY	1201	TCCCAACCTGAGGATTTCTGAAGAAGTTCACAGGTTCAATATTTAATGCTTTCAGAAGCATG	1260
DB	1201	TCCCAACCTGAGGATTTCTGAAGAAGTTCACAGGTTCAATATTTAATGCTTTCAGAAGCATG	1260
QY	1261	TGAGGTTTCCCAACACTGTGCAGCAAAAAACCTTAGGAGAAAACTTAAATAATATGAATACA	1320
DB	1261	TGAGGTTTCCCAACACTGTGCAGCAAAAAACCTTAGGAGAAAACTTAAATAATATGAATACA	1320
QY	1321	TGCGCAATACACAGCTACAGACACACATTCCTGTGACBAGGGAAAAACCTTCAAAGCATGT	1380
DB	1321	TGCGCAATACACAGCTACAGACACACATTCCTGTGTGACBAGGGAAAAACCTTCAAAGCATGT	1380
QY	1381	TTCTTTCCCTCCACCACACAGAACATGCAGTACTAAAGCAATATATTTCTGTATCCCCAT	1440
DB	1381	TTCTTTCCCTCCACCACACAGAACATGCAGTACTAAAGCAATATATTTCTGTATCCCCAT	1440
QY	1441	GTAATTTCTTCAATGTAAACAGTCGAGTCCTCTTTCGAAGAAGCTAGCATGCCATGCGCC	1500
DB	1441	GTAATTTCTTCAATGTAAACAGTCGAGTCCTCTTTCGAAGAAGCTAGCATGCCATGCGCC	1500
QY	1501	TTTTCTCTGTACATATACCTTTAAGAAACGCCCCCTCCACACACTGCCCCCAGTATATGC	1560
DB	1501	TTTTCTCTGTACATATACCTTTAAGAAACGCCCCCTCCACACACTGCCCCCAGTATATGC	1560
QY	1561	CGCAATGTACTGCTGTGTTATATGCTATGTACATGTGCAGAAACCATTAGCATTCATGCA	1620
DB	1561	CGCAATGTACTGCTGTGTTATATGCTATGTACATGTGCAGAAACCATTAGCATTCATGCA	1620
QY	1621	GGTTTCATATTTCTTCTTAAGATGGAAGTAATAAATAATATTTGAAATGTAAAAA	1680
DB	1621	GGTTTCATATTTCTTCTTAAGATGGAAGTAATAAATAATATTTGAAATGTAAAAA	1680
QY	1681	AAAAA 1685	
DB	1681	AAAAA 1685	
RESULT 12			
US-09-999-833A-369			
; Sequence 369, Application US/09999833A			
; Publication No. US20030054405A1			
; GENERAL INFORMATION:			
; APPLICANT: Ashkenazi, Avi			
; APPLICANT: Baker Kevin P.			
; APPLICANT: Botstein, David			
; APPLICANT: Desnoyers, Luc			
; APPLICANT: Eaton, Dan			
; APPLICANT: Ferrara, Napoleon			
; APPLICANT: Filvaroff, Ellen			
; APPLICANT: Fong, Sherman			
; APPLICANT: Gao, Wei-Qiang			
; APPLICANT: Gerber, Hanspeter			
; APPLICANT: Gerritsen, Mary E.			
; APPLICANT: Goddard, Audrey			
; APPLICANT: Godowski, Paul J.			
; APPLICANT: Grimaldi, J. Christopher			
; APPLICANT: Gurney, Austin L.			
; APPLICANT: Hillan, Kenneth J			
; APPLICANT: Kijavina, Ivar J.			
; APPLICANT: Kuo, Sophia S.			
; APPLICANT: Napier, Mary A.			
; APPLICANT: Pan, James			
; APPLICANT: Paoni, Nicholas F.			
; APPLICANT: Roy, Margaret Ann			

6	PRIOR FILING DATE: 1998-04-01
7	PRIOR APPLICATION NUMBER: 60/081070
8	PRIOR FILING DATE: 1998-04-08
9	PRIOR APPLICATION NUMBER: 60/081049
10	PRIOR FILING DATE: 1998-04-08
11	PRIOR APPLICATION NUMBER: 60/081071
12	PRIOR FILING DATE: 1998-04-08
13	PRIOR APPLICATION NUMBER: 60/081195
14	PRIOR FILING DATE: 1998-04-08
15	PRIOR APPLICATION NUMBER: 60/081203
16	PRIOR FILING DATE: 1998-04-09
17	PRIOR APPLICATION NUMBER: 60/081229
18	PRIOR FILING DATE: 1998-04-09
19	PRIOR APPLICATION NUMBER: 60/081955
20	PRIOR FILING DATE: 1998-04-15
21	PRIOR APPLICATION NUMBER: 60/081917
22	PRIOR FILING DATE: 1998-04-15
23	PRIOR APPLICATION NUMBER: 60/081919
24	PRIOR FILING DATE: 1998-04-15
25	PRIOR APPLICATION NUMBER: 60/081952
26	PRIOR FILING DATE: 1998-04-15
27	PRIOR APPLICATION NUMBER: 60/081838
28	PRIOR FILING DATE: 1998-04-15
29	PRIOR APPLICATION NUMBER: 60/082568
30	PRIOR FILING DATE: 1998-04-21
31	PRIOR APPLICATION NUMBER: 60/082569
32	PRIOR FILING DATE: 1998-04-21
33	PRIOR APPLICATION NUMBER: 60/082704
34	PRIOR FILING DATE: 1998-04-22
35	PRIOR APPLICATION NUMBER: 60/082804
36	PRIOR FILING DATE: 1998-04-22
37	PRIOR APPLICATION NUMBER: 60/082700
38	PRIOR FILING DATE: 1998-04-22
39	PRIOR APPLICATION NUMBER: 60/082797
40	PRIOR FILING DATE: 1998-04-22
41	PRIOR APPLICATION NUMBER: 60/082796
42	PRIOR FILING DATE: 1998-04-23
43	PRIOR APPLICATION NUMBER: 60/083336
44	PRIOR FILING DATE: 1998-04-27
45	PRIOR APPLICATION NUMBER: 60/083322
46	PRIOR FILING DATE: 1998-04-28
47	PRIOR APPLICATION NUMBER: 60/083392
48	PRIOR FILING DATE: 1998-04-29
49	PRIOR APPLICATION NUMBER: 60/083495
50	PRIOR FILING DATE: 1998-04-29
51	PRIOR APPLICATION NUMBER: 60/083496
52	PRIOR FILING DATE: 1998-04-29
53	PRIOR APPLICATION NUMBER: 60/083499
54	PRIOR FILING DATE: 1998-04-29
55	PRIOR APPLICATION NUMBER: 60/083545
56	PRIOR FILING DATE: 1998-04-29
57	PRIOR APPLICATION NUMBER: 60/083554
58	PRIOR FILING DATE: 1998-04-29
59	PRIOR APPLICATION NUMBER: 60/083558
60	PRIOR FILING DATE: 1998-04-29
61	PRIOR APPLICATION NUMBER: 60/083559
62	PRIOR FILING DATE: 1998-04-29
63	PRIOR APPLICATION NUMBER: 60/083500
64	PRIOR FILING DATE: 1998-04-29
65	PRIOR APPLICATION NUMBER: 60/083742
66	PRIOR FILING DATE: 1998-04-30
67	PRIOR APPLICATION NUMBER: 60/084366
68	PRIOR FILING DATE: 1998-05-05
69	PRIOR APPLICATION NUMBER: 60/084414
70	PRIOR FILING DATE: 1998-05-06
71	PRIOR APPLICATION NUMBER: 60/084441
72	PRIOR FILING DATE: 1998-05-06
73	PRIOR APPLICATION NUMBER: 60/084637
74	PRIOR FILING DATE: 1998-05-07
75	PRIOR APPLICATION NUMBER: 60/084639
76	PRIOR FILING DATE: 1998-05-07
77	PRIOR APPLICATION NUMBER: 60/084540
78	PRIOR FILING DATE: 1998-05-07

; PRIOR APPLICATION NUMBER: 60/084598
 ; PRIOR FILING DATE: 1998-05-07
 ; PRIOR APPLICATION NUMBER: 60/084600
 ; PRIOR FILING DATE: 1998-05-07
 ; PRIOR APPLICATION NUMBER: 60/084627
 ; PRIOR FILING DATE: 1998-05-07
 ; PRIOR APPLICATION NUMBER: 60/084643
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 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085700
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 ; PRIOR APPLICATION NUMBER: 60/085689
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085579
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085580
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085573
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match	100.0%;	Score 1685;	DB 10;	Length 1685;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1685;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
1	QY	CGCGAGACAAGCGCAGAGCGCAGCGACGACGCGCACAGACAGCCCTGGGCATCCACCGAGGG	60	
1	DB	CGCGAGACAAGCGCAGAGCGCAGCGACGCGCACAGACAGCCCTGGGCATCCACCGAGCG	60	
51	QY	CGCGACCGGAGCCAGACAGCGCGGAGGCGCGCCCGGCGAGAGAAAGCGGAGCAGCT	120	
51	DB	CGCGACCGGAGCCAGACAGCGCGGAGGCGCGCCCGGCGAGAGAAAGCGGAGCAGCT	120	
121	QY	GGGTGGCGTCTCCGGGCGCGCGTCCGAGCGGCGCAGCGCCCTCCGCCATCTCCCTGCTCCC	180	
121	DB	GGGTGGCGTCTCCGGGCGCGCGTCCGAGCGGCGCAGCGCCCTCCGCCATGTCCTGCTCCC	180	
181	QY	ACGCGCGCCCTCCGCTAGCATGAGGCTCTTGGCGGCGCGCTGCTCCGTGCTGCTGCT	240	
181	DB	ACGCGCGCCCTCCGCTAGCATGAGGCTCTTGGCGGCGCGCTGCTCCGTGCTGCTGCT	240	
241	QY	GGCGCTGTACACCGCGCGTGTGACGGGTCCAAATGCAAGTCTCTCCGGAAGGACCCAA	300	
241	DB	GGCGCTGTACACCGCGCGTGTGACGGGTCCAAATGCAAGTCTCTCCGGAAGGACCCAA	300	
301	QY	GATCCGCTACAGCGACGTGAAGAAAGCTGGAATGAAGCCAAAGTACCCGCACTCGAGGA	360	
301	DB	GATCCGCTACAGCGACGTGAAGAAAGCTGGAATGAAGCCAAAGTACCCGCACTCGAGGA	360	
361	QY	GAGATGGTTATCATACCAACGAGAGCGTGTCCAGGTACCGAGTCAAGGACACTGCTGCT	420	
361	DB	GAGATGGTTATCATACCAACGAGAGCGTGTCCAGGTACCGAGTCAAGGACACTGCTGCT	420	
421	QY	GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGGTACAAAGCCTCGAAACGAGAA	480	
421	DB	GCACCCCAAGCTGCAGAGCACCAAGCGCTTCATCAAGTGGTACAAAGCCTCGAAACGAGAA	480	
481	QY	CGCGAGGCTTACGAGAAATAGGTGAAAAAAGCTCAGAGGGAACCTCCAAAACGCTTG	540	
481	DB	CGCGAGGCTTACGAGAAATAGGTGAAAAAAGCTCAGAGGGAACCTCCAAAACGCTTG	540	
541	QY	GGAGACTTGTGCAAGGACCTTTCAGATTAAAAAAGGAAAAAAGGAAAAAAGGAAAAA	600	
541	DB	GGAGACTTGTGCAAGGACCTTTCAGATTAAAAAAGGAAAAAAGGAAAAAAGGAAAAA	600	

OY 1681 AAAAA 1685
DB 1681 AAAAA 1685

RESULT 13

US-09-981-915A-369
; Sequence 369, Application US/09981915A
; Publication No. US20030054986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C12
; CURRENT APPLICATION NUMBER: US/09/981,915A
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
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; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294

; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
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; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
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; PRIOR FILING DATE: 1998-03-27
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; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
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; PRIOR APPLICATION NUMBER: 60/080105
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
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; PRIOR APPLICATION NUMBER: 60/080333
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; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
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; PRIOR APPLICATION NUMBER: 60/082804
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; PRIOR APPLICATION NUMBER: 60/082700
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082796
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: 60/083336
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28

1201	QY	TCCCAACTCAGGATTTCTGAAAGGTTTCACAGGTTCCAAATATTAAATGCTTCAGAAGCATG	1260
1201	Db	TCCCAACTCAGGATTTCTGAAAGGTTTCACAGGTTCCAAATATTAAATGCTTCAGAAGCATG	1260
1261	QY	TGAGGTTCCCAACACACTGTCAGCAAAAAACCTTAGAGAAAACTTAAAAATATATGAATACA	1320
1261	Db	TGAGGTTCCCAACACACTGTCAGCAAAAAACCTTAGAGAAAACTTAAAAATATATGAATACA	1320
1321	QY	TGCGCAATACACAGCTACAGACACACATCTGTTGACAAAGGAAAAACCTTCAAAGACATGT	1380
1321	Db	TGCGCAATACACAGCTACAGACACACATCTGTTGACAAAGGAAAAACCTTCAAAGACATGT	1380
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1381	Db	TTCTTTCCCTCACCACAACAGACATGCAGTACTAAAGCAATATATTTGTGATTTCCCAT	1440
1441	QY	GTAATTCCTCAATGTTAAACAGTGCAGTCCCTTTTCGAAAGCTAAAGATGACCATGCGCC	1500
1441	Db	GTAATTCCTCAATGTTAAACAGTGCAGTCCCTTTTCGAAAGCTAAAGATGACCATGCGCC	1500
1501	QY	TTTCCTCTGTACATATACCCCTTAAAGAAAGCGCCSCTCCACACACTGCCCCCCACGATATATGC	1560
1501	Db	TTTCCTCTGTACATATACCCCTTAAAGAAAGCGCCSCTCCACACACTGCCCCCCACGATATATGC	1560
1561	QY	GCATGTGACTGCTGCTATATGCTATGTACATGTCAGAAACCAATTAGCATTCGATGCA	1620
1561	Db	GCATGTGACTGCTGCTATATGCTATGTACATGTCAGAAACCAATTAGCATTCGATGCA	1620
1621	QY	GGTTTCATATTCCTTCTAAGATGGAAGTAATAAATATATTTTGAATGTAAAAA	1680
1621	Db	GGTTTCATATTCCTTCTAAGATGGAAGTAATAAATATATTTTGAATGTAAAAA	1680
1681	QY	AAAAA	1685
1681	Db	AAAAA	1685

RESULT 1.4

RESOL 14
US-09-978-824-369

US-09-978-824-369 : Sequence 369. Application US/09978824

Sequence 369, Application US/09
Publication No. US20030055216A1

; Publication No. US20
; GENERAL INFORMATION:

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/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi
/ Baker Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Deenoyers, Luc
/ APPLICANT: Eacon, Dan
/ APPLICANT: Ferrara, Napoleon
/ APPLICANT: Flvzaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Kuo, Sophia S.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James;
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Shelton, Timothy L.
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mackey
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: Secreted and Transmitted
/ FILE REFERENCE: P2630F1C14
/ CURRENT APPLICATION NUMBER: US/09/970

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1 PRIOR FILING DATE: 1998-05-13
2 PRIOR APPLICATION NUMBER: 607085338
3 PRIOR FILING DATE: 1998-05-13
4 PRIOR APPLICATION NUMBER: 607085323
5 PRIOR FILING DATE: 1998-05-13
6 PRIOR APPLICATION NUMBER: 607085582
7 PRIOR FILING DATE: 1998-05-15
8 PRIOR APPLICATION NUMBER: 607085700
9 PRIOR FILING DATE: 1998-08-15
10 PRIOR APPLICATION NUMBER: 607085689
11 PRIOR FILING DATE: 1998-05-15
12 PRIOR APPLICATION NUMBER: 607085579
13 PRIOR FILING DATE: 1998-03-15
14 PRIOR APPLICATION NUMBER: 607085580
15 PRIOR FILING DATE: 1998-05-15
16 PRIOR APPLICATION NUMBER: 607085573
17 PRIOR FILING DATE: 1998-05-15
18 PRIOR APPLICATION NUMBER: 607085704
19 PRIOR FILING DATE: 1998-05-15
20 PRIOR APPLICATION NUMBER: 607085697

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1685; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

[illegible]

721 TGGGAGACCACTCTCTCTTGTGCTCCAGACTCATCAAGGCTGCTTTTATCAAAAGG 780
721 TGGGAGACCACTCTCTCTTGTGCTCCAGACTCATCAAGGCTGCTTTTATCAAAAGG 780
781 GGAAACTCTAGCTCTCTCTTTTAAATAATGCTTTTGTATGCTCCATAGCTCACTA 840
781 GGAAACTCTAGCTCTCTCTTTTAAATAATGCTTTTGTATGCTCCATAGCTCACTA 840
841 TACATCTGAGCTTTTAAAGCGCCGGGAGGAAACAATGAGCTTGGTGGACACATTTTATG 900
841 TACATCTGAGCTTTTAAAGCGCCGGGAGGAAACAATGAGCTTGGTGGACACATTTTATG 900
901 CAGTGTGCTCCATCTCTAGCTTGGGAAGCTTCGGCTTAGAGTCTCTGGCGCTGGCAC 960
901 CAGTGTGCTCCATCTCTAGCTTGGGAAGCTTCGGCTTAGAGTCTCTGGCGCTGGCAC 960
961 AGCTGCCACGGGCTCTCTCGGCTTATGCGGCTCAGAGCTCAGTGTGACTCCACAGTG 1020
961 AGCTGCCACGGGCTCTCTCGGCTTATGCGGCTCAGAGCTCAGTGTGACTCCACAGTG 1020
1021 GCCCTGTAGCGGGGAGGAGGAGGCTCTCTGCTATCTCTCTGAGGAACTCAA 1080
1021 GCCCTGTAGCGGGGAGGAGGAGGCTCTCTGCTATCTCTCTGAGGAACTCAA 1080
1081 GTTGTGCTGCGAGAAATGCTTATCCCTGCTTAAATTTTACACACCTTAGGA 1140
1081 GTTGTGCTGCGAGAAATGCTTATCCCTGCTTAAATTTTACACACCTTAGGA 1140
1141 AACATTTCCAGATCTCTGCTGAGGAGCAATGATCTTAAAGAGGTGTTGGGTCTT 1200
1141 AACATTTCCAGATCTCTGCTGAGGAGCAATGATCTTAAAGAGGTGTTGGGTCTT 1200
1201 TCCCAACTGAGGATTTCTGAAAGTTTCAAGGTTCAAGTTCAATTTTAAATTTTCAAGAGCATG 1260
1201 TCCCAACTGAGGATTTCTGAAAGTTTCAAGGTTCAAGTTCAATTTTAAATTTTCAAGAGCATG 1260
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RESULT 15
US-09-918-585A-369
; Sequence 369, Application US/0918585A
; Publication No. US20030060406A1

GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eston, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin D.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
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to cut
contact
surface
of the
material
is
very
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GenCore version 5.1.6
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US-09-978-189-369

Perfect score:

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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5	1640.4	97.4	1677	9	AX075514	AX075514 Homo sapi
6	1449.2	86.0	1865	6	AX379680	AX379680 Homo sapi
7	1433.2	85.1	1503	9	AF144103	AF144103 Homo sapi
8	1179.2	70.0	108123	9	AC034206	AC034206 Homo sapi
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12	1163.6	69.1	81811	2	AC063981	AC063981 Homo sapi
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	ORGANISM	Homo sapiens						
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		Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.						
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	REFERENCE	Forst,S., Goddard,A., Hillan,K.J., Roth,I. and Wood,W.I. Polypeptides and nucleic acids for bolexine Patent: WO 02077028-A 1 03-OCT-2002; JOURNAL TITLE: JOURNAL						

Schoenfeld, J., Sehagiri, S., Simmons, L., Singh, J., Smith, V.,
Stinson, J., Vangsta, A., Vandlen, R., Watanabe, C., Wleand, D., Woods, K.,
Xie, M. H., Yagura, D., Yi, S., Yu, G., Yuan, J., Zhang, M., Zhang, Z.,
Goddard, A., Wood, W. I., and Godowski, P.
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
Effort to Identify Novel Human Secreted and Transmembrane Proteins:
A Bioinformatics Assessment
Genome Res. 13 (10), 2265-2270 (2003)
12975309
2 (bases 1 to 1685)
Clark, H.F.
Direct Submission
Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
Inc., 1 DNA Way, South San Francisco, CA 94080, USA
Location/Qualifiers
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OPTICN

Query Match	100.0%;	Score 1685;	DB 9;	Length 1685;
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301	QY	GATCGCTACAGCGCGTGTGAGAGCTGTGAATGAAATGAAGTACCGGCACTCCGAGGA	360	
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DB	1141	AACATTTCCAAAGATCTGTGATCGCAGACAAATGATCCTTAAAGAGGTGTGGGCTCTT	1200
QY	1201	TCCCACTCAGGATTTCTGAAAGTTTCAGGTTCAATATTTTAAATGCTTCAGAGAGCATG	1260
DB	1201	TCCCACTCAGGATTTCTGAAAGTTTCAGGTTCAATATTTTAAATGCTTCAGAGAGCATG	1260
QY	1261	TGAGGTTTCCCAACACTGTGAGCAAAAACCTTAGAGAAAACTTAAAAATATATGAATACA	1320
DB	1261	TGAGGTTTCCCAACACTGTGAGCAAAAACCTTAGAGAAAACTTAAAAATATATGAATACA	1320
QY	1321	TGGCAATACACAGCTACAGACACATTTGTTGACRAGGGAAACCTTCAAGCATGT	1380
DB	1321	TGGCAATACACAGCTACAGACACATTTGTTGACRAGGGAAACCTTCAAGCATGT	1380
QY	1381	TTCTTTCCCTTCCCAACAACAGAACATGCACTACTAAAGCAATATATTTGTGATTCCTCAT	1440
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QY	1441	GTAATCTTCAATGTTTAAACAGTGCAGTCTCTTTTCGAAAGCTTAAGATCACATGCGCC	1500
DB	1441	GTAATCTTCAATGTTTAAACAGTGCAGTCTCTTTTCGAAAGCTTAAGATCACATGCGCC	1500
QY	1501	TTTTCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGGCCCCCAGTATATGC	1560
DB	1501	TTTTCTCTGTACATATACCTTTAAGAACGCCCTCCACACACTGGCCCCCAGTATATGC	1560
QY	1561	CGCATTTGACTGCTGTGTTATATGCTATGTACATGTGCAAAACCAATAGCATTTGCATGA	1620
DB	1561	CGCATTTGACTGCTGTGTTATATGCTATGTACATGTGCAAAACCAATAGCATTTGCATGA	1620

Qy	1621	GGTTTCATATCTCTTCTTAAGATCGAAGAATATAAATAATATATTTTGAATCTTAAAAA	1680
Db	1621	GGTTTCATATCTCTTCTTAAGATCGAAGAATATAAATAATATATTTTGAATCTTAAAAA	1680
Qy	1681	AAAAA	1685
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RESULT 3					
AX136401					
LOCUS	AX136401	1677 bp	DNA	linear	PAT 30-MAY-2001
DEFINITION	Sequence 323 from Patent EP1067182.				

AX136401
ACCESSION
VERSION AX136401.1 GI:14272805
KEYWORDS

ORGANISM	SOURCE
Homo sapiens (human)	
Homo sapiens	
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	

REFERENCE
Ota, T., Isogai, T., Nishikawa, T., Kawai, Y., Sugiyama, T. and Havashi, K.

TITLE
Secretory protein or membrane protein
JOURNAL
Patent: EP 1067182-A 323 10-JAN-2001;
Helix Research Institute (JP)

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Query Match	97.4%; Score 1640.4; DB 6; Length 1677;
Best Local Similarity	99.4%; Pred. No. 0;
Matches 1660: Conservative	0; Mismatches 1; Indels 9; Gaps 1;

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DB	17	CGCGAGACAAGCGCAGCGCGCAGCGCGCAGCGCCACAGACAGCCCTGGGATCCACCGACGG	76

[illegible]

	QY	DB
121	GGGTGGCTCTCCGGGCGCGCTCCGACGGGCCAGGCCCTCCCAATGTCCTGTCCC	180
137	GGGTGGCTCTCCGGGCGCGCTCCGACGGGCCAGGCCCTCCCAATGTCCTGTCCC	196

QY	181	ACGCCGCGCCCTCCGGTCAGCATGAGCTCCTGGCGCCGGCTGCTCCCTGCTGCTGCT	240
DB	197	ACGCCGCGCCCTCCGGTCAGCATGAGCTCCTGGCGCCGGCTGCTCCCTGCTGCTGCT	256

Accession	Sequence	Length
QY	GGCGGTGTACACCGCGCGTGTGGACGGGTCCAAATGCAAGTGCTCCCGAAGGGACCCAA	300
Db	GGCGGTGTACACCGCGCGTGTGGACGGGTCCAAATGCAAGTGCTCCCGAAGGGACCCAA	316

Accession	Sequence	Position
QY	301 GATCCGCTACAGCGACGTGAAGACCTGGAAATGAAGCCAAAGTACCCGCACTCGCAGGA	360
Db	317 GATCCGCTACAGCGACGTGAAGACCTGGAAATGAAGCCAAAGTACCCGCACTCGCAGGA	376

361	GAAGATGGTTATCATCA	CCACCAAGAGCGTGTC	CAGGTACCGAGTTCAGGACATGGCT	420
Qy				
377	GAAGATGGTTATCATCA	CCACCAAGAGCGTGTC	CAGGTACCGAGTTCAGGACATGGCT	436
Db				

1501	TTTCTCTGTGACATATACCTTAAAGACGGCCGCTCCACACAGCTGCCGCCAGTATATGC	1550
QY		
1508	TTTCTCTGTGACATATACCTTAAAGACGGCCGCTCCACACAGCTGCCGCCAGTATATGC	1567
Db		
1561	CGCATTTGACGTGCTGTATATGCTATGTGACATGTCTAGAAACCAATTAGCAATTCATGCA	1620
QY		
1568	CGCATTTGACGTGCTGTATATGCTATGTGACATGTCTAGAAACCAATTAGCAATTCATGCA	1627
Db		
1621	GGTTTCATATCTTTCTAAGATCGAAAGTAATAAAATATATTGAAATGT	1670
QY		
1628	GGTTTCATATCTTTCTAAGATCGAAAGTAATAAAATATATTGAAATGT	1677
Db		

[illegible]

QY	1381	TTCTTTCCCTCACCAACAGACAGATGCAGTACTAAAGCAATATATTTGTGATTCCTCAT	1444
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QY	1441	GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTTGGAAAGCTAAGATGACCATGGCC	1500
Db	1448	GTAATTTCTCAATGTTAAACAGTGCAGTCTCTTTTGGAAAGCTAAGATGACCATGGCC	1507
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QY	1561	CGCATTTGTTACTGCTGTGTTATATGCTATGTCATGTCAGAACCATTAGCATTTGCATGCA	1620
Db	1568	CGCATTTGTTACTGCTGTGTTATATGCTATGTCATGTCAGAACCATTAGCATTTGCATGCA	1627
QY	1621	GGTTTTCATATCTCTTTCTAAGATGGAAGTAATAAAATATATTTGAAATGT	1670
Db	1628	GGTTTTCATATCTCTTTCTAAGATGGAAGTAATAAAATATATTTGAAATGT	1677
RESULT 5			
AK075514			
LOCUS			
DEFINITION		1677 bp mRNA linear	PRI 03-SEP-2002
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
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source			
ORIGIN			
Query Match			
Best Local Similarity			
Matches 1660			
Conservative			
Query	1	GCGAGAGACAGCGGACGACGGCCACGACAGACAGCCCTGGCGATCCACCGACGG	60
Db	17	GCGAGAGACAGCGGACGACGGCCACGACAGACAGCCCTGGCGATCCACCGACGG	76
QY	61	CGCAGCGGACCGACGAGCGCGAAGCGCGCCCGCGGACAGAGAAAGCCGACGAGACT	120

QY 1201 TCCCAACCTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAATGCTTTCAGAACATG 1260
Db 1208 TCCCATCTGAGGATTTCTGAAAGGTTTCAAGGTTTCAATATTTAATGCTTTCAGAACATG 1267
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Db 1568 CGCATGTACTGCTGTATATATGCTATGTATCATGTTCAGAAACCATTTAGCATTCATGCA 1627
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Db 1628 GGTTCATATCTTTCTAAGATGAAAGTAAATATATTTGAAATGT 1677

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AR379680
LOCUS
DEFINITION
SEQUENCE 225 from patent US 6607879.
ACCESSION
AR379680.1 GI:40087314
VERSION
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.

REFERENCE
1 (bases 1 to 1865)
Cocks,B.G., Stuart,S.G. and Seilhamer,J.J.
TITLE
Compositions for the detection of blood cell and immunological
response gene expression
JOURNAL
Patent: US 6607879-A 225 19-AUG-2003;
FEATURES
Location/Qualifiers
1..1865
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ORIGIN
Query Match 86.0%; Score 1449.2; DB 6; Length 1865;
Best Local Similarity 94.6%; Pred. No. 3.1e-287;
Matches 1604; Conservative 0; Mismatches 57; Indels 34; Gaps 11;

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Db 172 GCGGAGACAAGCGCAGAGCGCAGCGCAGCGCCACAGACAGCCCTGGGCAATCCACCGCG 231
QY 61 CGCAGCGGAGCCAGCAGCGCGGAGCGCG-GCCCGGCGAGAGAAAGCCGAGCAGAGC 119
Db 232 CGCA-CNGNGCCAGCAGCAGCGAGGCGCGCGCGCGCGCGAGAGAAAGCCGAGCAGAGC 290
QY 120 TGGGTGGGTCTCCGGGCGCGCGCTCCGACGCGCGCGCGCGCGCGCGCGCGCGCGCG 179
Db 291 TGGGTGGGTCTCCGGGCGCGCGCTCCGACGCGCGCGCGCGCGCGCGCGCGCGCGCG 350
QY 180 CACG 239

Db 351 CACG 410
QY 240 TGGCGCTGTACACCG 299
Db 411 NNN 470
QY 300 AGATCCGCTACAGCGACGCTGAAGAAAGCTGAAATGAAGCAAAAGTACCGCACTCGAGG 359
Db 471 AGATCCGCTACAGCGACGCTGAAGAAAGCTGAAATGAAGCAAAAGTACCGCACTCGAGG 530
QY 360 AGAAGATGGTTATCATCACACACAGAGCGGTGTCCAGGTACCGAGGTACGAGCACTGCC 419
Db 531 AGAAGATGGTTATCATCACACAGAGCGGTGTCCAGGTACCGAGGTACGAGCACTGCC 590
QY 420 TGCACCCCAAGCTGACAGACCAAGCGCTTCAATCAAGTGTGACCAAGCTGGAACGAGA 479
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QY 480 AGCGCAGGCTTACGAAAGTAAAGGTTGAAAGCTTCAAGAGGGAAGCTTCAAGAGGAG 539
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QY 540 GCGAGACTGTGCAAGAGACTTTGCGAGTAAAGGTTGAAAGGTTGAAAGGTTGAAAGG 599
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QY 600 AAAAAAAGGCTTCTTCTTCTCAGCGCATAGACACAAATATATATTTATGTTATG 659
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QY 660 AAGCACTTTTAA-CGAAAGCTGAGTTTACATTTATAGCTGGTGGGAAAGGCTTCCA 718
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Best Local Similarity 93.6%; Pred. No. 4.8e-231;
Matches 1191; Conservative 0; Mismatches 3; Indels 2; Gaps 1;

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DB 111063 GAGACTTGTGCAAGAGGACTTTGCAGATT--AAAAAAGAAAAAAGAAAAAAGAAAAAAG 111006
QY 602 AAAAAAAGAAAAAGCCTTTCTTCTCAGGCATACAGCAAAATATATATATATATATATATGAA 661
DB 111005 AAAAAAAGAAAAAGCCTTTCTTCTCAGGCATACAGCAAAATATATATATATATATATGAA 110946
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DB 110765 ACATCTGAGCTTTATAGGCCCGGGAGGAACAATGAGCTTGGTGACACATTTCAATTC 110706
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DB 110705 AGTGTGCTCCATTCCTAGCTTGGGAAGCTTCGGCTTAGAGGCTCTGGGCGCTCGGCACA 110646
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DB 110345 GAGGTTCCCAACACTGTCAAGAAAAACCTTAGGAGAAAACTTAAAAATATATATATATATACAT 110286
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Db	110165	TAATTTCTTCATGTTAAACAGTGCAGTGCCTTTTCGAAAGCTAAGATGACCATGCGCCCT	110106
QY	1502	TTCCCTCTCTACATATACCCCTTAAGAACGCCCCCTCCACACACTGCCCCCAGCATATATGCC	1561
Db	110105	TTCCCTCTGTACATATACCCCTTAAGAACGCCCCCTCCACACACTGCCCCCAGTATATGCC	110046
QY	1562	GCATTGTACTCCTGTGTTTATATGCTATGTACAGTGCAGAAACCATTTAGCATTTGCATGCAG	1621
Db	110045	GCATTGTACTCCTGTGTTTATATGCTATGTACATGTGAGAAACCATTTAGCATTTGCATGCAG	109986
QY	1622	GTTTCATATCTTTCTTAAGATGGAAAGTAATAAAATATATTTGAAATGTAAAAAAA	1677
Db	109985	GTTTCATATCTTTCTTAAGATGGAAAGTAATAAAATATATTTGAAATGTACAAAA	109930

RESULT 10
AC011428/c

LOCUS
DEFINITION

ACCESSION

VERSION
KEYWORDS
SOURCE

ORGANISM

REFERENCE

AUTHORS	TITLE	TOPIC
...

JOURNAL
REFERENCE
AUTHORS

TITLE
JOURNAL

COMMENT

FEATURES source

QY		1442	TAAATCTTCAATTGTTAAAACAGTCGCAGCCTCTCTTTTGAAAGACTAAGAATGCCCATCGCCCT	1501
DB		17686	TAAATCTTCAATTGTTAAAACAGTCGCAGCCTCTCTTTTGAAAGACTAAGAATGCCCATCGCCCT	17627
QY		1502	TTCCCTCTGTACATAATACCCTTAAGAACGCCCCCCTCCACACACTGCCCCCCAGTATATGCC	1561
DB		17626	TTCCCTCTGTACATAATACCCTTAAGAACGCCCCCCTCCACACACTGCCCCCCAGTATATGCC	17567
QY		1562	GCAATTGTACTGCTGGTTTTATCTGCTATGCTATGCTACATGTCTGAACAACATTAGCATTCGATCGAG	1621
DB		17566	GCAATTGTACTGCTGGTTTTATCTGCTATGCTATGCTACATGTCTGAACAACATTAGCATTCGATCGAG	17507
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RESULT 11
AC009017/c

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DEFINITION      Homo sapiens chromosome 5 clone XxpI-929G6, WORKING DRAFT SEQUENCE,
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ACCESSION       AC009017
VERSION         AC009017.4    GI:13699469
KEYWORDS        HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ACTIVEPIN.
SOURCE          Homo sapiens
ORGANISM        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       DOE Joint Genome Institute.
                 Sequencing of Human Chromosome 5
                 Unpublished
AUTHORS         DOE Joint Genome Institute.
TITLE           Direct Submission
JOURNAL         Submitted (02-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
ON Apr 20, 2001 this sequence version replaced gi:11178048.
-----Genome Center
Center: Joint Genome Institute
Center code: JGI
Web site: http://www.jgi.doe.gov
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Project Information
Center Project Name: 1189133, H51
Center clone name: XxpI-929G6
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Summary Statistics
Consensus quality: 142845 bases at least Q40
Consensus quality: 150910 bases at least Q30
Consensus quality: 152756 bases at least Q20
Estimated insert size: 80000; pulse field gel estimation
Estimated insert size: 156920; sum-of-contigs estimation
Quality coverage: 8.41 in Q20 bases; pulse-field gel estimation
Quality coverage: 4.29 in Q20 bases; sum-of-contigs estimation.
* NOTE: This is a working draft sequence. It currently consists of 26 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
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FEATURES	source
1	Location/Qualifiers
3978:	contig of 3978 bp in length
4078:	gap of unknown length
42436:	contig of 38358 bp in length
42536:	gap of unknown length
44222:	contig of 1886 bp in length
44322:	gap of unknown length
44323:	contig of 6173 bp in length
50495:	gap of unknown length
50496:	contig of 1363 bp in length
50596:	gap of unknown length
51958:	contig of 3435 bp in length
51959:	gap of unknown length
52058:	contig of 9590 bp in length
52593:	gap of unknown length
55593:	contig of 4014 bp in length
55594:	gap of unknown length
55594:	contig of 2369 bp in length
55594:	gap of unknown length
55594:	contig of 8925 bp in length
65283:	gap of unknown length
65284:	contig of 80891: gap of unknown length
65284:	contig of 920 bp in length
69297:	gap of unknown length
69397:	contig of 2369 bp in length
69398:	gap of unknown length
71767:	contig of 8925 bp in length
71866:	gap of unknown length
80792:	contig of 80891: gap of unknown length
80792:	contig of 920 bp in length
80892:	contig of 920 bp in length

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ORIGIN
Query Match          69.1%;   Score 1163.6;   DB 2;   Length 81811;
Best Local Similarity 99.4%;   Pred. No. 2.8e-328;
Matches 1189;   Conservative 0;   Mismatches 4;   Indels 3;   Caps 2
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/chromosome="15"
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DB 15985 GAGACTTGTGCAAGAGACTTTGCAGATT - AAAAAAAAAAAAAAAAAAAAAA 15928
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LOCUS Sequence 59 from patent US 6620923.
DEFINITION AR400615
ACCESSION AR400615 GI:40144431
VERSION AR400615.1
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1630)
AUTHORS Specht,T., Hinemann,B., Schmitt,A., Pilarsky,C., Dahl,E. and Rosenthal,A.
TITLE Human nucleic acid sequences from endometrial tumor tissue
JOURNAL Patent: US 6620923-A 59 16-SEP-2003;
FEATURES Location/Qualifiers
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/organism="unknown"
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ORIGIN
Query Match 64.8%; Score 1092.2; DB 6; Length 1630;
Best Local Similarity 99.7%; Pred. No. 6.9e-214;
Matches 1094, Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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DB 532 ACAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCCTTCTTCACAGCAT 591
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DB 592 AAGACACAAATATATATGTTATGAAGCACTTTTACCAACGGTCAGTTTTCATTTT 651
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RESULT 14
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DEFINITION Sequence 59 from Patent WO954461.
ACCESSION AX013119
VERSION AX013119.1 GI:10040285

ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
Pillarsky,C.
TITLE Human nucleic acid sequences of endometrium tumour tissue
JOURNAL Patent: WO 954461-A 59 28-OCT-1999;
SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
(DE); PILLARSKY CHRISTIAN (DE)

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ORIGIN
Query Match 64.8%; Score 1092.2; DB 6; Length 1630;
Best Local Similarity 99.7%; Pred. No. 6.9e-214;
Matches 1094; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

575 AAGGCTTTCTTCACAGGCAT 634
532 ACAAATACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGCTTTCTTCACAGGCAT 591
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RESULT 15
BD206300

LOCUS BD206300 1630 bp DNA linear PAT 17-JUL-2003
DEFINITION Human nucleic acid sequence originating in endometrial tumor tissue.
ACCESSION BD206300
VERSION BD206300.1 GI:33016070
KEYWORDS JP 2002532055-A/59.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1. (bases 1 to 1630)
Specht, R., Hinzmann, B., Schmitt, A., Pilarsky, C., Dahl, B. and Rosenthal, A.
Human nucleic acid sequence originating in endometrial tumor tissue
TITLE Human nucleic acid sequence originating in endometrial tumor tissue
JOURNAL METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
COMMENT OS Homo sapiens (human)
PN JP 2002532055-A/59
PD 02-OCT-2002
PF 15-APR-1999 JP 2000544793
PR 17-APR-1998 DE 198 17 948.0
PI THOMAS SPECHT, BERND HINZMANN, ARMIN SCHMITT, CHRISTIAN PILARSKY, PI EDGAR DAHL,
PI ANDRE ROSENTHAL
PC C12N15/09, A61K38/00, C07K14/47, C07K16/18, C12N5/10, PC C12P21/02,
PC C12P21/08, C12Q1/69, C12N15/00, A61K37/02, C12N5/00 CC Human nucleic acid sequence originating in endometrial tumor CC
FH Key Location/Qualifiers
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Query Match 64.8%; Score 1092.2; DB 6; Length 1630;
Best Local Similarity 99.7%; Preq No 6.9e-214;
Matches 1094; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 575 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCCCTTTCTTCACAGGCAT 634
DB 532 ACAAATAAAAAAAAAAAAAAAAAAAAAAAAAAGCCCTTTCTTCACAGGCAT 591
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Search completed: April 26, 2004, 07:33:05
Job time : 6728 secs

OM nucleic - nucleic search, using sw model

Run on: April 26, 2004, 05:29:59 ; Search time 134 Seconds
(without alignments)
6978.300 Million cell updates/sec

Title: US-09-978-189-369

Perfect score: 1685

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Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1092.2	64.8	1630	4	US-09-673-395A-59 Sequence 59, Appl
3	976.2	57.9	1962	4	US-09-673-395A-541 Sequence 541, App
4	872.6	51.8	1962	4	US-09-673-395A-541 Sequence 541, App
5	727.2	43.2	1663	4	US-09-312-283C-370 Sequence 370, App
6	727.2	43.2	1663	4	US-09-312-283C-416 Sequence 416, App
7	448	26.6	764	3	US-09-188-930-263 Sequence 263, App
8	448	26.6	764	4	US-09-724-864-66 Sequence 66, Appl
9	448	26.6	764	4	US-09-312-283C-263 Sequence 263, App
10	435.6	25.9	461	2	US-08-825-556A-1 Sequence 1, Appl
11	435.6	25.9	461	4	US-09-238-184-1 Sequence 1, Appl
12	426	25.3	766	3	US-09-188-930-38 Sequence 38, Appl
13	426	25.3	766	4	US-09-312-283C-38 Sequence 38, Appl
14	352.8	20.9	1630	4	US-09-673-395A-59 Sequence 59, Appl
15	288	17.1	288	3	US-09-188-930-270 Sequence 270, App
16	288	17.1	288	4	US-09-724-864-67 Sequence 67, Appl
17	288	17.1	288	4	US-09-312-283C-270 Sequence 270, App
18	234	13.9	234	3	US-09-188-930-272 Sequence 272, App
19	234	13.9	234	4	US-09-724-864-71 Sequence 71, Appl
20	234	13.9	234	4	US-09-312-283C-272 Sequence 272, App
21	214.8	12.7	234	3	US-09-188-930-271 Sequence 271, App
22	214.8	12.7	234	4	US-09-724-864-69 Sequence 69, Appl
23	214.8	12.7	234	4	US-09-312-283C-271 Sequence 271, App
24	70.6	4.2	7218	1	US-08-232-463-14 Sequence 14, Appl
25	57.2	3.4	443	4	US-09-621-976-17631 Sequence 17631, A
26	56.2	3.3	231	4	US-09-621-976-16317 Sequence 16317, A
27	56.2	3.3	242	4	US-09-621-976-16320 Sequence 16320, A

28	56.2	3.3	242	4	US-09-621-976-16324 Sequence 16324, A
29	55.2	3.3	289	3	US-08-007-005-17 Sequence 17, Appl
30	55.2	3.3	289	3	US-09-444-796-17 Sequence 17, Appl
31	55.2	3.3	2230	3	US-08-378-313-24 Sequence 24, Appl
32	54.8	3.3	260	2	US-08-520-678A-29 Sequence 29, Appl
33	54.8	3.3	260	3	US-08-897-126-29 Sequence 29, Appl
34	54.6	3.2	1804	2	US-08-504-459-5 Sequence 5, Appl
35	54.4	3.2	1771	4	US-09-907-794A-158 Sequence 158, Appl
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37	54.4	3.2	1771	4	US-09-905-125A-158 Sequence 158, Appl
38	54.4	3.2	1771	4	US-09-902-775A-158 Sequence 158, Appl
39	54	3.2	282	4	US-09-621-976-18648 Sequence 18648, A
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41	53.4	3.2	335	4	US-09-621-976-16038 Sequence 16038, A
42	53.4	3.2	1279	3	US-09-248-335-25 Sequence 25, Appl
43	53.4	3.2	3214	1	US-08-484-105-17 Sequence 17, Appl
44	53.4	3.2	3214	1	US-08-484-106-17 Sequence 17, Appl
45	53	3.1	1210	4	US-09-443-041A-29 Sequence 29, Appl

ALIGNMENTS

RESULT 1
US-09-023-655-225
; Sequence 225, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhammer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 225:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1865 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BRSTNOT03
; CLONE: 1000787
US-09-023-655-225
Query Match : 86.0%; Score 1449.2; DB 4; Length 1865;

575 AA 634
532 ACATATACAAA 591
635 AAGACAAAT 694
592 AAGACAAAT 651
695 ATAGCTCGTGGGAAAGGCTTCCAGATGGAGACCCATCTCTCTGTGTCTCCAGACTCA 754
652 ATAGCTCGTGGGAAAGGCTTCCAGATGGAGACCCATCTCTCTGTGTCTCCAGACTCA 711
755 TCACAGCTCGCTTTTATCAAAAAGGGGAAACCTATGCTCTCTCTTTTAAAAAATGCT 814
712 TCACAGCTCGCTTTTATCAAAAAGGGGAAACCTATGCTCTCTCTTTTAAAAAATGCT 771
815 TTTTGTATTTGTCATACGCTTCACTATACATCTGAGCTTTATAAGCGCCGGGAGAAACA 874
772 TTTTGTATTTGTCATACGCTTCACTATACATCTGAGCTTTATAAGCGCCGGGAGAAACA 831
875 ATAGCTTGTGTGACACATTTTCAATGAGTGTGTCTTCCATCTCTAGCTTTGGAAAGCTTCC 934
832 ATAGCTTGTGTGACACATTTTCAATGAGTGTGTCTTCCATCTCTAGCTTTGGAAAGCTTCC 891
935 GCTTAGAGGTCTCTGGCGCTCGGCAAGCTGCGGCTCTCTCTGGGCTTATGGCCGGT 994
892 GCTTAGAGGTCTCTGGCGCTCGGCAAGCTGCGGCTCTCTCTGGGCTTATGGCCGGT 951
995 CACAGCTCAGTGTGACTCCACAGTGGCGCTGTAGCGGGCAAGGAGGAGCTCTCT 1054
952 CACAGCTCAGTGTGACTCCACAGTGGCGCTGTAGCGGGCAAGGAGGAGCTCTCT 1011
1055 CTGATCTGTCTCTGAGGAACCTCAAGTTGTGTGGCGAGAAATGTGTCTTATCCGCC 1114
1012 CTGATCTGTCTCTGAGGAACCTCAAGTTGTGTGGCGAGAAATGTGTCTTATCCGCC 1071
1115 CTGTTAAATTTTACACACCTTAGGAAACATTTCCAAAGTCTCTGTGTGGCGAGCAAT 1174
1072 CTGTTAAATTTTACACACCTTAGGAAACATTTCCAAAGTCTCTGTGTGGCGAGCAAT 1131
1175 GATCCTTTAAAGAGGTGTGGGGTCTTTCCCAACCTGAGGATTTCTGAAAGGTTTACAGGT 1234
1132 GATCCTTTAAAGAGGTGTGGGGTCTTTCCCAACCTGAGGATTTCTGAAAGGTTTACAGGT 1191
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1192 TCAATATTTAAATGCTTCAAGCATGTGAGGTCTCCCAACCTGAGGATTTCTGAAAGGTTTACAGGT 1251
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1252 AGAAAACTTAAAAATATATGAATACATGCGCAATACACAGCTACAGACACATTTCTGT 1311
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1312 GACAAAGGAAACCTTCAAGCATGTGAGGTCTCCCAACCTGAGGATTTCTGAAAGGTTTACAGGT 1371
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1372 AAAGCAATATATTTGTAATCCCATGTAAATCTTCAATGTTTAAACAGTGCAGTCTCTT 1431
1475 TCGAAAGCTAAGATGACCATGCGCCCTTCTCTGTGTATATACCTTTAAGAACGCCCC 1534
1432 TCGAAAGCTAAGATGACCATGCGCCCTTCTCTGTGTATATACCTTTAAGAACGCCCC 1491
1535 TCCACACATGCCCCCAGTATATGCGGCAATGTACTGTGTGTATATGCTATGTATACAT 1594
1492 TCCACACATGCCCCCAGTATATGCGGCAATGTACTGTGTGTATATGCTATGTATACAT 1551
1595 GTGAGAAACCATTAGCATGCGAGGTTCATATCTTTCTAGAGTGAAGTAAATAA 1654
1552 GTGAGAAACCATTAGCATGCGAGGTTCATATCTTTCTAGAGTGAAGTAAATAA 1611

QY 1655 AATATATTTGAAATGTA 1671
Db 1612 AATATATTTGAAATGTA 1628

RESULT 3
US-09-673-395A-541
; Sequence 541, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: FILARSKI, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 541
; LENGTH: 1962
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-673-395A-541

Query Match 57.9%; Score 976.2; DB 4; Length 1962;
Best Local Similarity 99.7%; Fred. No. 1.1e-219;
Matches 978; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 575 AAAGCCTTTCTTCTCACAGGCAT 634
Db 879 ACAATACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCCTTTCTTCTCACAGGCAT 938
QY 635 AGACACAAATATATATATATATATGATGACACCTTTTATCCACGCTCAGTTTTTACATTTT 694
Db 939 AGACACAAATATATATATATATGATGACACCTTTTATCCACGCTCAGTTTTTACATTTT 998
QY 695 ATAGCTGCTCGGAAAGGCTTCCAGATGGAGACCCATCTCTCTGTGTCTCCAGACTTCA 754
Db 999 ATAGCTGCTCGGAAAGGCTTCCAGATGGAGACCCATCTCTCTGTGTCTCCAGACTTCA 1058
QY 755 TCACAGCTCGCTTTTATCAAAAAGGGGAAACCTATGCTCTTTTAAAAAATGCT 814
Db 1059 TCACAGCTCGCTTTTATCAAAAAGGGGAAACCTATGCTCTTTTAAAAAATGCT 1118
QY 815 TTTTGTATTTGTCATACGCTCACTATACATCTGAGCTTTATAAGCGCCGGGAGAAACA 874
Db 1119 TTTTGTATTTGTCATACGCTCACTATACATCTGAGCTTTATAAGCGCCGGGAGAAACA 1178
QY 875 ATAGCTTGTGTGACACATTTTCAATGCAAGTGTGTCTCCATTCCTAGCTTGGGAAAGCTTCC 934
Db 1179 ATAGCTTGTGTGACACATTTTCAATGCAAGTGTGTCTCCATTCCTAGCTTGGGAAAGCTTCC 1238
QY 935 GCTTAGAGGTCTCTGGCGCTCGGCAAGCTGCGGCTCTCTCTGGGCTTATGGCCGGT 994
Db 1239 GCTTAGAGGTCTCTGGCGCTCGGCAAGCTGCGGCTCTCTCTGGGCTTATGGCCGGT 1298
QY 995 CACAGCTCAGTGTGACTCCACAGTGGCGCTGTAGCGGGCAAGGAGGAGCTCTCT 1054
Db 1299 CACAGCTCAGTGTGACTCCACAGTGGCGCTGTAGCGGGCAAGGAGGAGGAGCTCTCT 1358
QY 1055 CTGCAATCTCTCTGAGGAACCTCAAGTTGTGTGGTGTGCGAGAAAAATGTGCTTCTTCCCC 1114
Db 1359 CTGCAATCTCTCTGAGGAACCTCAAGTTGTGTGGTGTGCGAGAAAAATGTGCTTCTTCCCC 1418
QY 1115 CTGTTTAAATTTTACACACCTTAGGAAACATTTCCAAAGTCTCTGTGTAGTGGGAGCAAAAT 1174
Db 1419 CTGTTTAAATTTTACACACCTTAGGAAACATTTCCAAAGTCTCTGTGTAGTGGGAGCAAAAT 1478
QY 1175 GATCCTTAAAGAGGTGTGGGGTCTTTTCCCAACCTGAGGATTTCTGAAAGGTTTACAGGT 1234

	D _b	1479	GATCCCTTAAGAAAGGTGTTGGGGTCTTCCTCAACCTGAGATTCTCGAAGGTTCTCAGGT	1538
	Q _y	1235	TCAATATTTAAATGCTTTCAGAAGCATGTGAGGTTCCCAACACTGTGCAGCAAAAACCTTAGG	1294
	D _b	1539	TCAATATTTAAATGCTTTCAGAAGCATGTGAGGTTCCCAACACTGTGCAGCAAAAACCTTAGG	1598
	Q _y	1295	AGNAAACTTTAAAAATATATGAATACATGCGCAATACACAGCTACAGACACACATTCTGTT	1354
	D _b	1599	AGNAACTTTAAATAATATATGAATACATGCGCAATACACAGCTACAGACACACATTCTGTT	1658
	Q _y	1355	GACAAGGGAAAAACCTTCAAAGCATGTTTCTTCCCCTCACCAACAAGAACATGCGAGTACT	1414
	D _b	1659	GACAAGGGAAAAACCTTCAAAGCATGTTTCTTCCCCTCACCAACAAGAACATGCGAGTACT	1718
	Q _y	1415	AAGAGCAATATTTTGAGATTCCCCATGTAATCTTCCAATGTTTAAACAGTGCAGTCCCTCTT	1474
	D _b	1719	AAGAGCAATATTTTGAGATTCGCCANGTAATCTTCCAATGTTTAAACAGTGCAGTCCCTCTT	1778
	Q _y	1475	TGAAAAGCTAAGATGACCATGGCCCTTTCTCTGTGPACATATACCCCTTAAGAACGCCCCC	1534
	D _b	1779	TGAAAAGCTAAGATGACCATGGCCCTTTCTCTGTGPACATATACCCCTTAAGAACGCCCCC	1838
	Q _y	1535	TCCACACACTGCCCCCAGTA	1555
	D _b	1839	TCCACACACTGCCCCCAGTA	1859

RESULT 4

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US-09-673-395A-541/c
; Sequence 541, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 541
; LENGTH: 1962
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-673-395A-541

```

Db	684	CCCCGTAGCCGGGCAAGCAGGAGCAGGTCTCTCTGCAATCTGTCTCTGTAGGAACCTCAAG	625
Qy	1082	TTTGGTTGCCAGAAAAATGTGCTTCATTCGCCCCCTGGTTAAATTTTACACACCTTAGGAA	1141
Db	624	TTTGGTTGCCAGAAAAATGTGCTTCATTCGCCCCCTGGTTAAATTTTACACACCTTAGGAA	565
Qy	1142	ACATTTCCAAAGATCTCTGTGATGGCGAGACAATGATCCCTTAAAGAAGGTGTGGGTCTTT	1201
Db	564	ACATTTCCAAAGATCTCTGTGATGGCGAGACAATGATCCCTTAAAGAAGGTGTGGGTCTTT	505
Qy	1202	CCCAAGCTGAGGATTTCTGAAGGTTCAAGGTTCAATATTTAATGCTTTCAGAGCATGT	1261
Db	504	CCCAAGCTGAGGATTTCTGAAGGTTCAAGGTTCAATATTTAATGCTTTCAGAGCATGT	445
Qy	1262	GAGTTTCCCAACACACTGTGAGCAAAAAACCTTAGGAGAAAACTTAAAAATATATGATACAT	1321
Db	444	GAGTTTCCCAACACACTGTGAGCAAAAAACCTTAGGAGAAAACTTAAAAATATATGATACAT	385
Qy	1322	GCGCAATACACAGCTACAGACACACATCTGTGTGCAAGGGAAAAACCTTCAAAGCATGTT	1381
Db	384	GCGCAATACACAGCTACAGACACACATCTGTGTGCAAGGGAAAAACCTTCAAAGCATGTT	325
Qy	1382	TCTTTCCTCTCACACAAACAGAACTGCAAGTACTTAAAGCAATATATTTGTGATTCCTCATG	1441
Db	324	TCTTTCCTCTCACACAAACAGAACTGCAAGTACTTAAAGCAATATATTTGTGATTCCTCATG	265
Qy	1442	TAAATCTTCAATGTTTAAACAGGTGCAAGTCTCTTTTCGAAAGCTTAAAGTACCATGCGCCT	1501
Db	264	TAAATCTTCAATGTTTAAACAGGTGCAAGTCTCTTTTCGAAAGCTTAAAGTACCATGCGCCT	205
Qy	1502	TTCTCTGTACATATACCTTTAAGAACGCCGCCCTCCACACACTGCCGCCCTAGTATATGCC	1561
Db	204	TTCTCTGTACATATACCTTTAAGAACGCCGCCCTCCACACACTGCCGCCCTAGTATATGCC	145
Qy	1562	GCATTGTAATGCTGTGTGTATATGCTATGTACATGTGAGAAACCATTAGCATTCATGCAG	1621
Db	144	GCATTGTAATGCTGTGTGTATATGCTATGTACATGTGAGAAACCATTAGCATTCATGCAG	85
Qy	1622	GTTCATATTTCTTCTTACAGTGAAGTAAATAAATATATTTTGAATCTAAAAAABAAA	1681
Db	84	GTTCATATTTCTTCTTACAGTGAAGTAAATAAATATATTTTGAATCTAAAAAABAAA	25
Qy	1682	AAA 1684	
Db	24	AGA 22	

RESULT 5

US-09-312-283C-370

; Sequence 370, Application US/09312283C

; Patent No. 6573095

; GENERAL INFORMATION:

; APPLICANT: Watson, James D.

; APPLICANT: Strachan, Lorna

; APPLICANT: Sileman, Matthew

; APPLICANT: Ornstet, Rene

; APPLICANT: Murison, James G.

; APPLICANT: Kumble, Krishanand D.

; TITLE OF INVENTION: Compositions Isolated from Skin Cells

; TITLE OF INVENTION: and Methods for Their Use

; FILE REFERENCE: 11000.1011c2

; CURRENT APPLICATION NUMBER: US/09/312,283C

; CURRENT FILING DATE: 1999-05-14

; NUMBER OF SEQ ID NOS: 425

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 370

; LENGTH: 1663

; TYPE: DNA

; ORGANISM: Mouse

US-09-312-283C-370

RESULT 5

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US-09-312-283C-370
, Sequence 370, Application US/09312283C
, Patent No. 6573095
, GENERAL INFORMATION:
, APPLICANT: Watson, James D.
, APPLICANT: Strachan, Lorna
, APPLICANT: Sleeman, Matthew
, APPLICANT: Onrust, Rene
, APPLICANT: Murison, James G.
, APPLICANT: Kumble, Krishanand D.
, TITLE OF INVENTION: Compositions and Methods for Their Use
, TITLE OF INVENTION: Isolated from Skin Cells
, FILE REFERENCE: 11000.1011c2
, CURRENT APPLICATION NUMBER: US/09/312,283C
, CURRENT FILING DATE: 1999-05-14
, NUMBER OF SEQ ID NOS: 425
, SOFTWARE: FastSeq for Windows Version 4.0
, SEQ ID NO 370
, LENGTH: 1663
, TYPE: DNA
, ORGANISM: Mouse
, US-09-312-283C-370

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QY	71	GCCAGCAGAGCCGAAAGCGCGCC	CGGCAGAGAAAGCC	GAGCAGAGCT	TGGGTGGCGTC			130
Db	72	GCGAGCCGAC	CAGAGCAGAGAGGCGT	GCTTGAACCGAGAA	CCAAAGCCGGCGGCATC			131
QY	131	TCGGGGCGCGCTCCGA	CGGGCCAGCGCCTCCCAT	GTCCCTGTCTCC	CCACCGCGCGCC			190
Db	132	CCCGCGCGCGCAGCAG	CAGCGCGCGCCTCTT	GGCTCCCTGCTCC	CAACCGCGCC			190
QY	191	CCTCGGTTCAGCAT	GAGGCTCTCGCGCGCGCTGCT	CCTGCTGCTGCTGCGCGCT	GTATC			250
Db	191	CCTCGGCCAGCAT	GAGGCTCTCGCGCGCGCGCTGCT	CCTGCTGCTCTCGCGCGCTGTC				250
QY	251	ACCGCGGTGTGAC	CGGGTCCAAATCCAA	GTGCTCCCGGAAGGAC	CCAAAGATCCGCTAC			310
Db	251	GCCTCGCGCTGAC	CGGGTCCAAAGTGAAGTGT	CCCGGAAGGGGCCCA	AGATCCGCTAC			310
QY	311	AGCACTGGAAGAGCT	GGAATGAAGCCAAAGTAC	CCCGCATCGGAGGAGAGAT	TGGTT			370
Db	311	AGCACTGGAAGAGCT	GGAATGAAGCCAAAGTAC	CCCATCTCGGAGGAGAGAT	TGGTT			370
QY	371	ATCATCACCAAGAC	CGGTGTCAGGTAC	CCGAGGTCCAGGAGCACT	GTCTGCACCCCAAG			430
Db	371	ATCGTCAACCAAGAC	CGGTGTCAGGTAC	CGGGCCAGGAGCACT	GTCTGCACCCCTAAG			430
QY	431	CTGCAGAGCA	CCAAAGCGCTTCAT	CAGTGGTGTACACGCT	CGAAGAGAGCCAGGGTC			490
Db	431	CTGCAGAGCA	CCAAAGCGCTTCAT	CAGTGGTGTACATGCT	CGAAGAGAGCCAGGGTC			490
QY	491	TACGAAGAATAGGGT	GAATAACCTCAGAAAGGAA	AACCTCAAAC	CCAGTGTGGAGACTTGT			550
Db	491	TACGAAGAATAGGGT	GAACGATCATGGAAAGAA	AACCTCCAGGCCAGTGTGAGAGACTTCA				550
QY	551	GCAAGGAC	TTTCAGATTA	AAAAA	AAAAA	AAAAA	AAAAA	610
Db	551	GCAAGGAC	TTTCAGATTT	-----	-----	-----	AAAAATAA	576
QY	611	AAAGCCTTTCTTCTCA	CAGGCATAGACAAAT	TATATGTTAT	GTAAGCACTTTT			670
Db	577	AAGCCTTTCTTCTCA	CAGGCATAG	-----	-----	-----	-----	634
QY	671	ACCAACGGTCAGTTTT	TACATTTATAGCTGCGT	CGGAAAGGCTTCAGAT	GGAGACCC			730
Db	635	ACC-AGGGTCAGTTTT	TACATTTATAGCTGTGTG	GAAGGCTTCAGAT	GTGAGATCC			693
QY	731	ATCTCTGTGTCTCAGACT	TCATCACAGGCTGTTTT	-----	-----	-----	ATCAAAA	777
Db	694	AGCTCGCTCGCAC	CAGACTTCATTA	CAAGTGGCTTTTCTCGCGCGGT	TGGCGGGGG			753
QY	778	AGGGAAACCTCAT	GTGCTTTTAAAAA	TGCTTTTGTATTTGTCAT	TACGTCA			837
Db	754	CGGGGGACCTCAGC	TTTCTTTTAAAT	TAGGGGTTTGTATTTGTCAT	TATGTCA			813
QY	838	CTATACATCTGAGCTT	TATGAAGCGCCGGGAGGA	CAATGAGCTTGGT	TGACATTTCA			897
Db	814	CCACACATCTGAGCTT	TATGAAGCGCTCGGAGGA	CAGTGAGCATGGT	TGAGACCGTCA			873
QY	898	TTGAGTGTGTCTCCAT	TCTACCTTGGGAAGCTTCCGCT	TAGAGTTCCTGGCGCCTCGG				957
Db	874	CAGCACTACTGCTCG	CTCCAGGCTTCAAAG	GCTTCCGCTCAGAGAGC	CTGGCGGCTCTG			933
QY	958	CACAGCTGCCACGGGCT	CTCTGGGCTTATGCGCGT	CACAGCTCAGTGTGACTCCACA				1017
Db	934	TGCAGCTGCCACAGGCT	CTCTGGGCTTATGACTGGT	CAGAGTTTCA	GTTGACTTCCACT			993
QY	1018	GTGGCCCCGTGAG	CCGGCAGAGAGAGT	CTCTCTGATCTGTTCTCT	TGAGGAAC			1077
Db	994	GTGGCCCCGTG	CAGGCAATTTGGAGCAGGCTCTT	CTACATCTGTCCT	TAGAGAACT			1053

13	GC	AAGCGC	AC	CAGGCA	CCGG	GACAGAC	-GGC	AGGAC	CCCA	TAC	ACGGCG	TACT	GG	71								
71	GC	CAGCAG	CGCG	GAAGCG	CGCC	CGCGG	CAGAGAA	ACCG	AGCAG	AGAGT	TGGT	GGCGTC	130									
72	GG	AGCCG	AGCAG	AGCAG	GAGAG	GCGCT	GTCT	TGA	ACCG	AGAAC	CAAG	CGCGGCGCATC	131									
131	TC	CGGCGCG	CGCT	CCG	AGCGGC	CAGCG	CCCT	CCCAT	GTCC	CTGCT	CCCA	CGCGCGCC	190									
132	CC	CGCGCG	CGCG	CAGC	ACAG	CTGG	CGCC	CTCT	TGCT	CCCT	GTCTCC	-CAC	CGCGCG	190								
191	CT	CCGCT	CAGAT	GAGCT	CTCG	CGCGCG	CGCGT	GTCT	CTGT	GTGT	GTGGCGGT	GTAC	250									
191	CT	CCGCGC	CAGCAT	GAGCT	CTCG	CGCGCG	CGCGT	GTCT	CTGT	GTCT	GTGGCGGT	GTGC	250									
251	AC	CGCGCT	GTGG	AGCGGT	TCCAA	TGCA	AGT	GTCT	CCCG	AAAGG	AGCACC	AAAGAT	CGCTAC	310								
251	GC	CTCGCG	TGGAC	GCGGT	CCAA	GTGT	AGT	GTCT	CCCG	AAAGG	CGCC	AAAGT	TCGGCTAC	310								
311	AC	GACGT	GTGA	AGAGCT	TGGA	ATGA	AGC	CAAA	GTAC	CCCG	CACT	TCG	CAGGAGAG	ATGTGT	370							
311	AG	CACGT	GTGA	AGAGCT	TGGA	ATGA	AGC	CAAA	GTAC	CCCA	CACT	TCG	CAGGAGAG	ATGTGT	370							
371	AT	CAT	CA	CCAC	CAAG	AGCGT	CTC	CAGGT	TAC	CGAGT	CAGG	AGCA	TGCT	CGAC	CCCCAAG	430						
371	AT	CGT	CA	CCAC	CAAG	AGCA	TG	CTC	CAGGT	TAC	CGG	GGCC	AGG	AGCA	TGCT	CGAC	CCCCAAG	430				
431	CT	G	CAG	AGCA	CCAG	CGCT	T	CAT	CA	GTGT	GA	CA	CGCT	TCG	AA	CAG	AGCG	CGAGGTC	490			
431	CT	G	CAG	AGCA	CCAA	CGCT	T	CAT	CA	GTGT	GA	CA	ATG	CGCT	TCG	AA	CAG	AGCG	CGAGGTC	490		
491	TAC	GAA	GAAT	AGG	GTG	AAAA	ACCT	CAG	AA	GGG	AAAA	CTC	CA	AA	ACCA	CGT	TGG	CAG	ACT	TGT	550	
491	TAC	GAA	GAAT	AGG	GTG	AG	CGAT	CA	TG	AA	AG	AAAA	CTC	CA	AG	CGCA	T	TG	AG	ACT	TCA	550
551	GC	AAAGG	ACT	TG	CAG	ATT	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	610	
551	GC	AGG	ACT	TG	CAG	ATT	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA	576	
611	AA	AGCCT	TCT	TTCT	TC	CAG	GC	CA	TA	AG	CA	CA	AA	TAT	TAT	TAT	TAT	TAT	TAT	TAT	670	
577	AA	GCCT	TCT	TTCT	TC	CA	AG	CA	TA	AG	-ACA	AA	TAT	TAT	TAT	TAT	TAT	TAT	TAT	TAT	634	
671	AC	CA	AGCGT	CAG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	730	
635	ACC	-AGG	GT	CAG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	693	
731	AP	CT	CT	CT	TG	CT	CC	AG	CT	T	CA	AG	CG	T	CT	T	T	T	T	T	770	
694	AG	CT	CG	CT	CG	CG	CA	CG	ACT	T	CA	T	CA	AG	T	GC	T	T	T	T	733	

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RESULT 8
US-09-724-864-66
; Sequence 66, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D
; APPLICANT: Murison, James G
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.105001
; CURRENT APPLICATION NUMBER: US/09724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 764
; TYPE: DNA
; ORGANISM: Mouse
US-09-724-864-66

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	Query Match	26.6%; Score 448; DB 4; Length 764;
	Best Local Similarity	79.7%; Pred. No. 7, 6e-96;
	Matches 606; Conservative	0; Mismatches 115; Indels 39; Gaps 5;
QY	11	GCGCAGACGCGACGCCAGCGCACACAGCCCTGGGCATCCAACGACGCGCGACGCGA 70
DB	13	
QY	71	GCCNAGCGCACACCAGCACCGCACAGAC - GG CAGGAGCACCATTCGACGCGCGTACTGGA 71
DB	72	
QY	131	TCCGGGCGCGGTCCGACGGSCGACGCGCTCCCATGTCTCCCTGCTCCCACGCGCGCGCC 190
DB	132	
QY	191	CCTCCGCTCAAGCATGAGGTCTCTTGCGGCGCGGCTCTCTTGCTCCCTGCTCC - CACCGSGCC 190
DB	191	
QY	251	ACCSCGGCTGTGAACGGGTCAAATGCAAGTGTCTCCGGAAAGGCACCAAGATCCCGCTAC 310
DB	251	
QY	311	AGCGACGTGAAGAAGCTGGAATGAAGCAAAGTACCGCACTCGGAGGAGAGATGGTT 370
DB	311	
QY	371	ATCATCACCAACAAGACGCTGTCCAGGTACCGAGTCAAGGAGCACTGCCTGCAACCCCCAAG 430
DB	371	
QY	431	CTGCAGAGCACACNAGCGCTTCATCAAGTGTGTACMACCGCTGGAAACGAGAACGCGAGGTC 490
DB	431	
QY	491	TACGAGAATTAGGGTGAAAACCTCAGAAAGGAAAACTCCAAACCACTGGGAGACTTGT 550
DB	491	
QY	551	GCAAGGACCTTTCAGATTAAA 610
DB	551	
QY	611	AAAGCCCTTCTTTCTCAGAGGCATAAGACACAAATTAATATTGTTATGAAGCACTTTTT 670
DB	577	AAGCCCTTTCTTCTCACAAGCATAAAG - ACAATTAATATTGCTATGAAGCTCTTCTT 634
QY	671	ACCACGGTCACTTTTACATTTATAGCTCGCGCAAGGCTTCAGATGGGAGACC 730
DB	635	ACC - AGGTCAGTTTTTACATTTATAGCTGTGTGAAAGGGCTTCAGATGTGAGATCC 693
QY	731	ATCTCTCTTGCTCCAGACTTCATCACAGGCTGCTTTTT 770
DB	694	AGTCTCCTTGCGCACACAGACTTCATTACAGTGGCTTTTT 733

RESULT 9
US-09-312-283C-263
; Sequence 263, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011C2
; CURRENT APPLICATION NUMBER: US/09/312.283C

QY 370 TATCATCACCAACCAAGAGCGTGTCCAGGTACCGAGGTACGAGCACTGCTGCACCCCAA 429
Db 246 TATCATCACCAACCAAGAGCGTGTCCAGGTACCGAGGTACGAGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCAACCAAGCGTGTCTCAAGTGTGTACAAAGCGCTGGAAGCAAGCGAGGT 489
Db 306 GCTGCAGAGCAACCAAGCGTGTCTCAAGTGTGTACAAAGCGCTGGAAGCAAGCGAGGT 365
QY 490 CTACGAAGATAGGTGAAACCACTCAGAAAGGAAACCTCCAAACCAAGTGGGAGACTTG 549
Db 366 CTACGAAGATAGGTGAAACCACTCAGAAAGGAAACCTCCAAACCAAGTGGGAGACTTG 425
QY 550 TG--CAAGAGACTTTCAGATTAATAAAAAAAAAAAAAA 583
Db 426 TGGCAAGGAACCTTTCAGATTAATAAAAAAAAAAAAAA 461

RESULT 11

US-09-238-184-1
; Sequence 1, Application US/09238184
; Patent No. 6479633
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 43..375
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 79..375
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 43..126

; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 127..375
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 79..126
US-09-238-184-1
Query Match 25.9%; Score 435.6; DB 4; Length 461;
Best Local Similarity 98.7%; Pred. No. 4.9e-93;
Matches 450; Conservative 0; Mismatches 4; Indels 2; Gaps 1;
QY 130 CTCGGGCGCGCGCTCCGAGCGGCGCAGCGCCCTCCCATGTCCCTGCCACGCGCGCGC 189
Db 6 CTCGGGCGCGCGCTCCGAGCGGCGCAGCGCCCTCCCATGTCCCTGCCACGCGCGCGC 65
QY 190 CCTCCGGTCAAGCATGAGGCTCTCTGGCGCGCGCTCTCTCTCTCTCTCTCTCTCT 249
Db 66 CCTCCGGTCAAGCATGAGGCTCTCTGGCGCGCGCTCTCTCTCTCTCTCTCTCTCT 125
QY 250 CACCGCGCGTGTGGAGCGGTCCAAATGCAAGTGTCCCGGAGGAGCCCAAGATCCGCTA 309
Db 126 CACCGCGCGTGTGGAGCGGTCCAAATGCAAGTGTCCCGGAGGAGCCCAAGATCCGCTA 185
QY 310 CAGCGACGTGAAGAAGCTGGAAATGAAGCCAAAGTACCGCACTCGAGGAGAAAGATG 369
Db 186 CAGCGACGTGAAGAAGCTGGAAATGAAGCCAAAGTACCGCACTCGAGGAGAAAGATG 245
QY 370 TATCATCACCAACCAAGAGCGTGTCCAGGTACCGAGGTACGAGCACTGCTGCACCCCAA 429
Db 246 TATCATCACCAACCAAGAGCGTGTCCAGGTACCGAGGTACGAGCACTGCTGCACCCCAA 305
QY 430 GCTGCAGAGCAACCAAGCGCTTTCATCAAGTGTGTACAAAGCGCTTGGAAAGCGAGGT 489
Db 306 GCTGCAGAGCAACCAAGCGCTTTCATCAAGTGTGTACAAAGCGCTTGGAAAGCGAGGT 365
QY 490 CTACGAAGATAGGTGAAACCACTCAGAAAGGAAACCTCCAAACCAAGTGGGAGACTTG 549
Db 366 CTACGAAGATAGGTGAAACCACTCAGAAAGGAAACCTCCAAACCAAGTGGGAGACTTG 425
QY 550 TG--CAAGAGACTTTCAGATTAATAAAAAAAAAAAAAA 583
Db 426 TGGCAAGGAACCTTTCAGATTAATAAAAAAAAAAAAAA 461
RESULT 12
US-09-188-930-38
; Sequence 38, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 766
; TYPE: DNA
; ORGANISM: mouse
US-09-188-930-38
Query Match 25.3%; Score 426; DB 3; Length 766;
Best Local Similarity 79.5%; Pred. No. 1.1e-90;
Matches 606; Conservative 0; Mismatches 115; Indels 41; Gaps 7;
QY 11 GCGCAGAGCGAGCGCACGCGCCACAGACAGCGCTCGGCATCCACGAGCGGCGCAGCCGGA 70

Db	13	GCACAGCGCACCGAGCACCGCGACAGAC - GGCAGGAGCACCCATCGACGGGGGTACTGGA	71
QY	71	GCCAGCAGAGCGGAAGCGCGCCCGGCGCAGAGAAAGCCGAGCAGAGCTGGTGCGCGTC	130
Db	72	GGGAGCCGAGCAGACAGAGAGAGCGCTGCTTGAAACCGAGAAACCAAGCGGGCGGCATC	131
QY	131	TCCGGGCGCGCTCTCCGACGGCGCAGCGCCCTCCCATGTCCCTGTCCACGCGCGCGCC	190
Db	132	CCCCGGCGCGCACGCAAGCGCGCGCCCTCTCTGCTCCCTGCTCCC - CACCGCGC	190
QY	191	CTCTCGGCTGACATGAGGCTCTCTGGCGCGCGCTGCTCTGTGCTGTGCGGTGTAC	250
Db	191	CTCTCGGCGCAGCATGAGCTCTCTGGCGCGCGCTGCTCTGTGCTGTGCGGTGTGC	250
QY	251	ACCGCGCGGTGAGACGGGTCCAAATGCAAGTGCTCCCGGAAGGAGCCCAAGATCCCGCTAC	310
Db	251	GCCTCGCGGTGGACGGGTCCAGTGTAGTGTTCGCGAAGGGGCCAAGATCCGCTAC	310
QY	311	ACGCACTGTGAGAGACTCGGAATGAGCCAAAGTACCCGCACTTCGAGGAGAGAATGGTT	370
Db	311	AGCAGCTGTGAGAGAGCTCGGAATGAGCCAAAGTACCACACTTCGAGGAGAGAATGGTT	370
QY	371	ATCATCATCACCC - AAGAGCGGTGTC - AGGTACCGAGGTCAGGAGCACTGCCTGCAACCCCA	428
Db	371	ATCGTCAACCAACCAAGAGCATGTCCAAAGTACCGGGCCAGGAGCACTGCCTGCAACCCCA	430
QY	429	AGCTCAGAGACACCAAGCGCTTCATCAAGTGTGTACAGCGCTGGAAAGAGAGCGAGG	488
Db	431	AGCTGCAAGACACCAAGCGCTTCATCAAGTGTGTACAAATGCTGGAAAGAGAGCGAGG	490
QY	489	TCTTCAAGAAATAGGGTCAAAAACCTCAGAAAGGAAAACCTCCAAACCAAGTTCGGAGACTT	548
Db	491	TCTTCAAGAAATAGGGTGGACGATCATGGAAAGAAAAAACTCCAGGCCAGTTTCAGAGACTT	550
QY	549	GTGCAAAAGGACTTTCAGACTTAAAAAAAACCAAGGAAAAAAGAAAAAAGAAAAAAGAAA	608
Db	551	CAGCAGAGACTTTCAGACTT-----ANAAAT	576
QY	609	AAAAAGCCTTTCTTCTCACAGGCAAGACACAAATTATATTTATGTAAGCACTTT	668
Db	577	AAAAAGCCTTTCTTCTCACAGCATAAG - ACAAAATTATATTTGCTATGAAGCTTTC	634
QY	669	TTATCAACGGTCAGTTTTTACATTTTACTCGTCGCAAGGCTTTCAGATGCGAGAC	728
Db	635	TTACC - AGGTCAGTTTTTACATTTTATAGCTGTGTGAAGGCTTCAGATGTGAGAT	693
QY	729	CCATCTCTCTTGTGCTCCAGACTTCATCACAGGCTGCTTTT	770
Db	694	CCAGCTCCGCTCGCACCAAGACTTCATCAAGTGGCTTTT	735

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RECORD 13
US-09-312-283C-38
Sequence 38, Application US/09312283C
Patent No. 6573095
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James G.
APPLICANT: Kumble, Krisharand D.
TITLE OF INVENTION: Compositions Isolated from Skin Cells
and Methods for Their Use
FILE REFERENCE: 11000.1011C2
CURRENT APPLICATION NUMBER: US/09/312.283C
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 425
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 38
LENGTH: 766
TYPE: DNA

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; ORGANISM: Mouse
 US-09-312-283C-38

Query Match 25.3%; Score 426; DS 4; Length 766;
 Best Local Similarity 79.5%; Pred. No. 1.1e-90;
 Matches 606; Conservative 0; Mismatches 115; Indels 41; Gaps 7;

QY	11	GGCAGAGCGCAGCGCACGCGCCACACAGACGCTGGGATCCACGACGGCGGACCGGA	70
Db	13	GCACAGCCACACGACACCGGACAGC-GGACAGAGACCCATCGACGGCGTACTGGA	71
QY	71	GCACAGAGCGGAGAGCGCGCCCGGCGAGAGAAAGCCGACAGAGACTGGGTGGCTC	130
Db	72	GGAGCCGACAGACAGACAGAGAGGGGTGCTTTGAAACCGAGAACCAAGCCGGCGGATC	131
QY	131	TCGCGCGCGCGCTCCACAGCGGCGACAGCGCCCTCCCATGTCCCTGCTCCACGCGCGGCC	190
Db	132	CCCGCGCGCGCACACAGCGCGCGCCCTTGCCTCCCTGCTCCC-CACGCGGCC	190
QY	191	CCTCGGPTCAGCATGAGGCTCTCTGGCGCGCGCTCTCTGCTGCTGCTGGCGCTCTAC	250
Db	191	CCTCGCGCAGCATGAGCTTCTGGCGCGCGCTCTCTCTGCTGCTCTGCGCGCTGTC	250
QY	251	ACCGCGCTGTGGACGGTCCAAATGCAAGTGCTCCCGGAAGGACCCAGATCCGGTAC	310
Db	251	GCCTCGCGCTGTGGACGGTCCAAATGTAAGTGCTCCCGGAAGGACCCAGATCCGGTAC	310
QY	311	AGCAGACGTGAAAGACTGGGAATGAAGCCAAAGTACCCTGCTGCGAGGAGAGATGTT	370
Db	311	AGCAGCTGGAAGAGCTGGAATGAAGCCAAAGTACCACACTGCGAGGAGAGATGTT	370
QY	371	ATCATCAACCACC-AAGAGCGTGCC-AGTACCGAGGTGAGAGCATGCTCGACCCCA	428
Db	371	ATCGTCAACCACCAAGAGCATGTCGAAGTACCGGGCGAGGACATGCTCGACCCCA	430
QY	429	AGCTGCAGAGCACCAAGCGCTTCATCAAGTGTGTAACAACGCTTGAAACGAGAGCGCAGG	488
Db	431	AGCTGCAGAGCACCAACGCTTCATCAAGTGTGTAACAATGCTGGAACGAGAGCGCAGG	490
QY	489	TCTACGAAGTAATGGGTGAAAACCTCAGAAGGAAAACCTCCAACACAGTTGGGAGACTT	548
Db	491	TCTACGAGATAAGGTGAGCATCATGGAAGAAAACCTCAGGCCAGTTGAGAGACTT	550
QY	549	GTGCNAGGACTTTGCGAGTTAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	608
Db	551	CAGCAGAGGACTTTGCGAGTT-----AAAAAIAAAAAAAAAAAAAAAAAAAAAA	576
QY	609	AAAAAGCCTTTCTTCTCAGCAGCATTAAGACACAAATATATATTGTTATGAAGCACTT	668
Db	577	AAAAAGCCTTTCTTCTCAACAGCATTAAG-ACAAATATATATTGTTATGAAGCTTTC	634
QY	669	TTACCAAGCTCAGTTTTTACATTTTATAGTCTGCGGAAGGCTTCCAGATGGGAGAC	728
Db	635	TTACC-AGGTCAGTTTTTACATTTTATAGCTGTGTGAAAAGGCTTCCAGATGTGAGAT	693
QY	729	CAATCTCTGTGCTCCAGACTCATCATCAGGCTGCTTTTT 770	
Db	694	CCAGCTCGCTGGCCACGACTTCATTACAGTGGCTTTTT 735	

RESULT 14
 US-09-673-395A-59/c
 ; Sequence 59, Application US/09673395A
 ; Patent No. 6620823
 ; GENERAL INFORMATION:
 ; APPLICANT: SPECHT, THOMAS
 ; APPLICANT: HEINZMANN, BERND
 ; APPLICANT: SCHMITT, ARMIN
 ; APPLICANT: PILARSKY, CHRISTIAN
 ; APPLICANT: DAHL, EDGAR
 ; APPLICANT: ROSENTHAL, ANDRE
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
 ; FILE REFERENCE: A-RR-12

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Query Match      17.1%; Score 288; DB 3; Length 288;
Best Local Similarity 100.0%; Pred.No. 1.8e-58;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Search completed: April 26, 2004, 10:29:53
Job time : 141 secs

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RESULT 15
US-09-188-930-270
, Sequence 270, Application US/09188930A
, Patent No. 6150502
, GENERAL INFORMATION:
, APPLICANT: Watson, James D.
, APPLICANT: Strachan, Lorna
, APPLICANT: Sleeman, Matthew
, APPLICANT: Orrust, Rene
, APPLICANT: Murison, James Greg
, TITLE OF INVENTION: Compositions Isolated From Skin Cells
, TITLE OF INVENTION: and Methods For Their Use
, FILE REFERENCE 11000.1011c1.930A
, CURRENT APPLICATION NUMBER: US/09/188,930A
, CURRENT FILING DATE: 1998-11-09
, NUMBER OF SEQ ID NOS: 348
, SOFTWARE: FastSeq for Windows Version 3.0
, SEQ ID NO 270
, LENGTH: 288
, TYPE: DNA
, ORGANISM: Mouse
US-09-188-930-270

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:26:32 ; Search time 17 Seconds
(without alignments)
339.987 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLLAAL.....TKRFKYNWNEKRVYEE 111

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	527	89.8	99	1 SZ14 HUMAN	Q95715 homo sapien
2	489	83.3	99	1 SZ14 MOUSE	Q9W4Q5 mus musculus
3	143.5	24.4	100	1 M12B RAT	Q10747 rattus norv
4	138	23.5	100	1 M12B MOUSE	P10889 mus musculus
5	131	22.3	101	1 GRO CRIGR	P09340 cricetus
6	128.5	21.9	107	1 M12A HUMAN	P19875 homo sapien
7	127.5	21.7	103	1 GRO SHEEP	Q46678 ovis aries
8	124	21.1	100	1 M12P RAT	P30348 rattus norv
9	122.5	20.9	98	1 GRO2 BOVIN	Q46675 bos taurus
10	118.5	20.2	104	1 GRO2 RABIT	P47854 cryptolagus
11	117.5	20.0	104	1 GROB BOVIN	Q46677 bos taurus
12	117.5	20.0	107	1 GRO HUMAN	P09341 homo sapien
13	116.5	19.8	107	1 M12B HUMAN	P19876 homo sapien
14	113.5	19.3	104	1 GROA BOVIN	Q46676 bos taurus
15	111	18.9	104	1 GRO MOUSE	P12850 mus musculus
16	104.5	17.8	88	1 M12A RAT	Q10746 rattus norv
17	103	17.5	104	1 GRO CAUPO	O55235 cavia porce
18	103	17.5	117	1 AMC2 PIG	P22952 sus scrofa
19	97	16.5	96	1 GRO RAT	P14095 rattus norv
20	94.5	16.1	126	1 SZ05 MOUSE	P18340 mus musculus
21	90.5	15.4	71	1 GRO1 RABIT	P30782 cryptolagus
22	87.5	14.9	125	1 SZ09 HUMAN	Q07325 homo sapien
23	87	14.8	124	1 SZ06 HUMAN	P80162 homo sapien
24	86	14.7	112	1 SZ06 BOVIN	P80221 bos taurus
25	84	14.3	94	1 SZ11 HUMAN	O14625 homo sapien
26	84	14.3	104	1 PF4V HUMAN	P10720 homo sapien
27	83.5	14.2	101	1 IL8 CANFA	P41324 canis fami
28	83.5	14.2	101	1 IL8 FELCA	Q9XK55 felis silve
29	82.5	14.1	103	1 IL8 PIG	P26894 sus scrofa
30	82.5	14.1	128	1 SZ07 HUMAN	P02775 h platelet
31	82	14.0	94	1 SY26 HUMAN	Q9Y258 homo sapien
32	82	14.0	130	1 SZ05 RAT	P97885 rattus norv
33	81.5	13.9	98	1 SZ10 HUMAN	P02778 homo sapien

34 81 13.8 101 1 PLF4 HUMAN
35 80.5 13.7 98 1 SZ10 MOUSE
36 80.5 13.7 101 1 IL8 BOVIN
37 80.5 13.7 103 1 EMF1 CHICK
38 80 13.6 119 1 SZ07 PIG
39 79.5 13.5 101 1 IL8 SHEEP
40 76.5 13.0 114 1 SZ05 HUMAN
41 76 12.9 132 1 SZ05 MOUSE
42 75.5 12.9 97 1 IL8 HORSE
43 73 12.4 89 1 SY18 HUMAN
44 73 12.4 105 1 PLF4 RAT
45 72.5 12.4 101 1 IL8 RABIT

ALIGNMENTS

RESULT 1

SZ14_HUMAN STANDARD; PRT; 99 AA.
AC Q95715; Q86U69; Q9BTR1;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DB Small inducible cytokine B14 precursor (CXCL14) (Chemokine BRAK).
GN CXCL14 OR SCYB14 OR NJAC.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
[1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99160416; PubMed=10049774;
RA Hromas R., Brockmeyer H.E., Kim C., Nakshatri H., Christopherson K. II,
RA Azam M., Hou Y.-H.;
RT "Cloning of BRAK, a novel divergent CXK chemokine preferentially
RT expressed in normal versus malignant cells."
RL Biochem. Biophys. Res. Commun. 255:703-706(1999).
[2]
RP SEQUENCE FROM N.A.
RC TISSUE=Oral epithelium;
RA Frederick M.P., Henderson Y., Xu X., El-Naggar A.K., Wu H.,
RA Hudson J.M., Clayman G.L.;
RT "Identification of a novel chemokine family member with altered
RT expression in human head and neck squamous cell carcinoma."
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
[3]
RP SEQUENCE FROM N.A.
RA Kainine N., Chen X., Rolfs A., Hallock A., Hines L., Eisenstein S.,
RA Koundinya M., Raphael J., Moreira D., Kelley T., Labaer J., Lin Y.,
RA Phelan M., Farmer A.;
RT "Cloning of human full-length CDS in BD Creator(TM) system donor
RT vector."
RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.
[4]
RP SEQUENCE FROM N.A.
RC TISSUE=Pancreas;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Haef N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Faehey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whitling M., Madao A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903(2002).
CC -1- FUNCTION: Not chemotactic for T-cells, B-cells, monocytes,
CC natural killer cells or granulocytes. Does not inhibit
CC proliferation of myeloid progenitors in colony formation assays.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed in heart, brain, placenta, lung,
CC liver, skeletal muscle, kidney and pancreas. Highly expressed in
CC normal tissue without inflammatory stimuli and infrequently
CC expressed in cancer cell lines.
CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine CXC)
CC family.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; AF073957; AAD03839.1; -;
CC EMBL; AF144103; AAD38944.1; -;
CC EMBL; BT007080; AAF35743.1; ALT_INIT.
CC EMBL; BC003513; AAH03513.1; ALT_INIT.
CC Genew; HGNC:10640; CXCL14.
CC MIM; 604186; -;
CC GO; GO:0008009; F:chemokine activity; TAS.
CC GO; GO:007287; P:cell-cell signaling; TAS.
CC GO; GO:006935; P:chemotaxis; TAS.
CC GO; GO:007165; P:signal transduction; TAS.
CC InterPro; IPR001811; Chemokine_IL8.
CC InterPro; IPR001089; CXC_chmkine_smll.
CC Pfam; PF00048; IL8; 1.
CC PROSITE; PS00471; SMALL_CYTOKINES_CXC; FALSE_NEG.
CC Cytokine; Signal.
CC SIGNAL 1 22 POTENTIAL.
CC CHAIN 23 99 SMALL INDUCIBLE CYTOKINE B14.
CC DISULFID 25 51 BY SIMILARITY.
CC DISULFID 27 72 BY SIMILARITY.
CC SEQUENCE 99 AA; 11772 MW; 99802D8FC659C1D CRC64;
Query Match 89.8%; Score 527; DB 1; Length 99;
Best Local Similarity 100.0%; Pred.No. 1.6e-50; Indels 0; Gaps 0;
Matches 99; Conservative 0; Mismatches 0;
QY 13 MRLAAALLLLALLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEERXVIIT 72
DB 1 MRLAAALLLLALLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEERXVIIT 60
QY 73 KSVRYRGQEHCLHPKLOSTKRFKIKWYNAWNEKRRVYEE 111
DB 61 KSVRYRGQEHCLHPKLOSTKRFKIKWYNAWNEKRRVYEE 99
RESULT 2
SZ14 MOUSE STANDARD; PRT; 99 AA.
AC Q9WUQ5;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Small inducible cytokine B14 precursor (CXCL14) (Chemokine BRAK)
DE (kidney-expressed chemokine CXC).
GN CXCL14 OR SCYB14 OR REC.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]

RP SEQUENCE FROM N.A.
RX MEDLINE=99160416; PubMed=10049774;
RA Hromas R., Broxmeyer H.E., Kim C., Nakhatri H., Christopherson K. II,
RA Azam M., Hou Y.-H.;
RT "Cloning of BRAK, a novel divergent CXC chemokine preferentially
RT expressed in normal versus malignant cells.";
RL Biochem. Biophys. Res. Commun. 255:703-706(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C3H;
RC Wang L., Deng L., Raikwar N., Sahota A., Tischfield J.A.;
RT "Identification of a kidney-expressed chemokine (KEC), a member of the
RT CXC family, that is selectively elevated in apt knockout mice.";
RT Submitted (OCT-1999) to the EMBL/GenBank/DBJ databases.
RL SUBCELLULAR LOCATION: Secreted (Potential).
CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine CXC)
CC family.
CC
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CC or send an email to license@isb-sib.ch).
CC
CC EMBL; AF152377; AAD34157.1; -;
CC EMBL; AF192557; AAF03753.1; -;
CC MGD; MGI:1888514; CXCL14.
CC InterPro; IPR001811; Chemokine_IL8.
CC InterPro; IPR001089; CXC_chmkine_smll.
CC Pfam; PF00048; IL8; 1.
CC PROSITE; PS00471; SMALL_CYTOKINES_CXC; FALSE_NEG.
CC Cytokine; Signal.
CC SIGNAL 1 22 POTENTIAL.
CC CHAIN 23 99 SMALL INDUCIBLE CYTOKINE B14.
CC DISULFID 25 51 BY SIMILARITY.
CC DISULFID 27 72 BY SIMILARITY.
CC CONFLICT 64 64 F -> S (IN REF. 2).
CC SEQUENCE 99 AA; 11802 MW; 754BD6CDA01CA25D CRC64;
Query Match 83.3%; Score 489; DB 1; Length 99;
Best Local Similarity 91.9%; Pred.No. 2.2e-46; Indels 0; Gaps 0;
Matches 91; Conservative 3; Mismatches 5;
QY 13 MRLAAALLLLALLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEERXVIIT 72
DB 1 MRLAAALLLLALLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEERXVIIT 60
QY 73 KSVRYRGQEHCLHPKLOSTKRFKIKWYNAWNEKRRVYEE 111
DB 61 KSVRYRGQEHCLHPKLOSTKRFKIKWYNAWNEKRRVYEE 99
RESULT 3
M12B RAT STANDARD; PRT; 100 AA.
AC Q10747;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Macrophage inflammatory protein-2-beta precursor (MIP2-beta) (CINC-
DE 2-beta)
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 33-100.
RC STRAIN=Wistar;
RX MEDLINE=94318061; PubMed=8043001;
RA Nakagawa H., Komori N., Shibata F., Ikeue A., Konishi K.,
RA Fujioka M., Kato H.;

"Identification of cytokine-induced neutrophil chemoattractants (CINC), rat GRO/CINC-2 alpha and CINC-2 beta, produced by granulocyte tissue in culture: purification, complete amino acid sequences and characterization.";
 RL Biochem. J. 301:545-550(1994).
 RN [2]
 RP SEQUENCE OF 33-52.
 RC STRAIN=WiStar.
 RX MEDLINE=96181056; PubMed=8607872;
 RA Nakagawa H., Shioya S., Takano K., Shibata F., Kato H.;
 RT "Cytokine-induced neutrophil chemoattractant (CINC)-2 alpha, a novel member of rat GRO/CINC, is a predominant chemokine produced by lipopolysaccharide-stimulated rat macrophages in culture.";
 RL Biochem. Biophys. Res. Commun. 220:945-948(1996).
 RP [3]
 CC -1- FUNCTION: May play a role in inflammation and exert its effects on endothelial cells in an autocrine fashion.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine CxC) family.
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 CC EMBL; D21095; BAA04657.1; --
 DR PIR; S46198; S46198.
 DR HSSP; P10889; 1MI2.
 DR InterPro; IPR001811; Chemokine IL8.
 DR InterPro; IPR001089; CXC_chmkine_small.
 DR Pfam; PF00048; IL8; 1.
 DR SMART; SM00199; SCY; 1.
 DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
 KW Cytokine; Chemotaxis; Inflammatory response; Signal.
 FT SIGNAL 1 32
 FT CHAIN 33 100 MACROPHAGE INFLAMMATORY PROTEIN-2-BETA.
 FT DISULFID 37 63 BY SIMILARITY.
 FT DISULFID 39 79 BY SIMILARITY.
 SQ SEQUENCE 100 AA; 10989 MW; E53E3E3E30909D2 CRC64;
 Query Match 24.4%; Score 143.5; DB 1; Length 100;
 Best Local Similarity 35.1%; Pred. No. 9e-09;
 Matches 34; Conservative 19; Mismatches 31; Indels 13; Gaps 3;
 QY 8 APPVSMRLAAALLLLALLLALYARVDGS-----KCKSRKPKIRYSDVKKLEMKPKY 60
 DB 2 APP-TRELLNAALLLLALLLALYARVDGS-----KCKSRKPKIRYSDVKKLEMKPKY 60
 QY 61 PHCEKRVITTKSVRSYRGQEHLPKQSTGRFTK 97
 DB 61 PHCTQTEVIATLKD-----GQEVCLNFPQAPRLQKIIQ 92
 RESULT 4
 ID MIP2 MOUSE STANDARD; PRT; 100 AA.
 AC P10889;
 DT 01-JUL-1989 (Rel. 11, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Macrophage inflammatory protein 2 precursor (MIP2).
 GN CXCL2 OR SCYB2 OR MIP2 OR MIP-2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90354792; PubMed=2201751;

RA Tekamp-Olson P., Gallegos C., Bauer D., McClain J., Sherry B.,
 RT Fabre M., van Deventer S., Cerami A.;
 RT "Cloning and characterization of cDNAs for murine macrophage inflammatory protein 2 and its human homologues.";
 RL J. Exp. Med. 172:911-919(1990).
 RN [2]
 RP SEQUENCE OF 28-59.
 RX MEDLINE=89098980; PubMed=2643119;
 RA Wolpe S.D., Sherry B., Juers D., Davatelis G., Yurt R.W., Cerami A.;
 RT "Identification and characterization of macrophage inflammatory protein 2.";
 RL Proc. Natl. Acad. Sci. U.S.A. 86:612-616(1989).
 RP [3]
 CC STRUCTURE BY NMR.
 RX MEDLINE=98285558; PubMed=9622482;
 RA Shao W., Jerva L.F., West J., Lolis E., Schweitzer B.I.;
 RT "Solution structure of murine macrophage inflammatory protein-2.";
 RL Biochemistry 37:8303-8313(1998).
 CC -1- FUNCTION: Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst.
 CC -1- SUBUNIT: Homotetramer.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine CxC) family.
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 CC EMBL; X53798; CAA37807.1; --
 DR PIR; JH0200; JH0200.
 DR PDB; 1MI2; 29-APR-98.
 DR MGI; MGI:1340094; Cxcl2.
 DR InterPro; IPR001811; Chemokine IL8.
 DR InterPro; IPR001089; CXC_chmkine_small.
 DR Pfam; PF00048; IL8; 1.
 DR PRINTS; PR00437; SMALLCYTKCXC.
 DR SMART; SM00199; SCY; 1.
 DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
 KW Cytokine; Chemotaxis; Inflammatory response; Signal; 3D-structure.
 FT SIGNAL 1 27
 FT CHAIN 28 100 MACROPHAGE INFLAMMATORY PROTEIN 2.
 FT DISULFID 36 62
 FT DISULFID 38 78
 FT STRAND 42 42
 FT TURN 45 46
 FT HELIX 47 49
 FT STRAND 52 56
 FT TURN 60 62
 FT STRAND 65 71
 FT TURN 72 74
 FT STRAND 75 79
 FT TURN 85 86
 FT HELIX 87 94
 FT TURN 96 97
 SQ SEQUENCE 100 AA; 10621 MW; B9EFOA3218EB92B5 CRC64;
 Query Match 23.5%; Score 138; DB 1; Length 100;
 Best Local Similarity 33.3%; Pred. No. 3.6e-08;
 Matches 32; Conservative 21; Mismatches 31; Indels 12; Gaps 3;
 QY 8 APPVSMRLAAALLLLALLLALYARVDGS-----KCKSRKPKIRYSDVKKLEMKPKY 61
 DB 2 APP-TCRLLSAALLLLALLLALYARVDGS-----KCKSRKPKIRYSDVKKLEMKPKY 60
 QY 62 HCEERKRVITTKSVRSYRGQEHLPKQSTGRFTK 97
 DB 61 HCAQTEVIATLKG-----GQKVLDPAPLVQKIIQ 91

RESULT 5

GRO_CRIGR
ID GRO_CRIGR STANDARD; PRT; 101 AA.
AC P09340;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-MAR-1989 (Rel. 10, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Growth regulated protein precursor (CXCL1).
GN CXCL1 OR SCYB1 OR GRO.
OS Cricetus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Cricetulus.
OX NCBI_TaxID=10029;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=88041072; PubMed=2890161;
RA Anisowicz A., Bardwell L., Sager R.;
RT "Constitutive overexpression of a growth-regulated gene in
transformed Chinese hamster and human cells.";
RL Proc. Natl. Acad. Sci. U.S.A. 84:7188-7192(1987).
CC -!- FUNCTION: Has chemotactic activity for neutrophils.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the intercrine alpha (chemokine Cx) family.
CC
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CC
CC EMBL; J03560; AAA36985.1; --
DR PIR; P28414; B28414.
DR HSP; P19875; IONK.
DR InterPro; IPR001811; Chemokine_IL8.
DR InterPro; IPR001089; CXCL1_chemokine_sm1.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00437; SMALLCYTCKC.
DR SMART; SM00199; SCV; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
KW Cytokine; Growth factor; Inflammatory response; Signal.
FT SIGNAL 1 28
FT CHAIN 29 101
FT DISULFID 37 63
FT DISULFID 39 79
FT DISULFID 39 79 BY SIMILARITY.
SQ SEQUENCE 101 AA; 10893 MW; 666FE7B9CC512019 CRC64;

Query Match 22.3%; Score 131; DB 1; Length 101;
Best local similarity 31.6%; Pred. No. 2.1e-07;
Matches 30; Conservative 21; Mismatches 32; Indels 12; Gaps 2;
QY 10 PVSRLAAALLLLLLALYARY-----DGSKCKSKGPKIRYSDVXKLEMKPKYPH 62
D 3 PATRSLRAPULLLLLLATSLRTAGPANELRCQCLQMTGVHLKNIQSLKVTTPGPH 62
QY 63 CEERQVLTTSVSRVGOEHLKXQSTKFIK 97
D 63 CTQTEVATLN-----GQEACLNPEAPVQKIVQ 92

RESULT 6

M12A_HUMAN
ID M12A_HUMAN STANDARD; PRT; 107 AA.
AC P19875; O9UPB8;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Macrophage inflammatory protein-2-alpha precursor (MIP2-alpha) (CXCL2)
DE (Growth regulated protein beta) (Gro-beta).
DE

GN CXCL2 OR GRO2 OR SCYB2 OR GROB OR MIP2A.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX TISSUE=Histocytic lymphoma;
MEDLINE=90354792; PubMed=2201751;
RA Tekamp-Olson P., Gallegos C., Bauer D., McClain J., Sherry B.,
Fabre M., van Deventer S., Cerami A.;
RT "Cloning and characterization of cDNAs for murine macrophage
inflammatory protein 2 and its human homologues.";
RL J. Exp. Med. 172:911-919(1990).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=90377259; PubMed=2078213;
RA Iida N., Grotendorst G.R.;
RT "Cloning and sequencing of a new gro transcript from activated human
monocytes: expression in leukocytes and wound tissue.";
RL Mol. Cell. Biol. 10:5596-5599(1990).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=91017578; PubMed=2217207;
RA Haskill S., Peace A., Morris J., Sporn S.A., Anisowicz A., Lee S.W.,
Smith T., Martin G., Ralph P., Sager R.;
RT "Identification of three related human GRO genes encoding cytokine
functions.";
RL Proc. Natl. Acad. Sci. U.S.A. 87:7732-7736(1990).
RN [4]
RP SEQUENCE FROM N.A.
RX TISSUE=Eye;
MEDLINE=22388257; PubMed=12477932;
RA Srausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Sherman C.M., Schuler G.D.,
Altschul R.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haish F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
Boesak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Wuzny K.C., Sodergren E.J., Lu X., Gibbs R.A., Sanchez A.,
Faney J., Helton E., Kettman M., Madan A.A., Rodrigues S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.N.,
Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [5]
RP SEQUENCE OF 35-107 FROM N.A.
RA Jang J.S., Kim B.E.;
RN Submitted (JAN-1998) to the EMBL/GenBank/DBJ databases.
RN [6]
RP STRUCTURE BY NMR OF 39-107.
RX MEDLINE=20069929; PubMed=10600366;
RA Qian Y.Q., Johanson K.O., McDevitt P.;
RT "Nuclear magnetic resonance solution structure of truncated human
GRObeta [5-73] and its structural comparison with CXCL chemokine
family members GROalpha and IL-8.";
RL J. Mol. Biol. 294:1065-1072(1999).
CC -!- FUNCTION: Produced by activated monocytes and neutrophils and
expressed at sites of inflammation.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the intercrine alpha (chemokine Cx) family.
CC
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CC -----
 DR EMBL; X53799; CAA37808.1; -
 DR EMBL; M36820; AAA63183.1; -
 DR EMBL; M57731; AAA63182.1; -
 DR EMBL; BC015753; AAH15753.1; -
 DR EMBL; AF043340; AAC03540.1; -
 DR PIR; JH0281; JH0281.
 DR PDB; 1QNK; 04-FEB-00.
 DR Genew; HGNC:4603; CXCL2.
 DR MIM; 139110; -
 DR GO; GO:0005615; C:extracellular space; TAS.
 DR GO; GO:0005625; C:soluble fraction; TAS.
 DR GO; GO:0008009; F:chemokine activity; TAS.
 DR GO; GO:0006935; F:chemotaxis; TAS.
 DR GO; GO:0006954; P:inflammatory response; TAS.
 DR InterPro; IPR001811; Chemokine_IL8.
 DR InterPro; IPR001089; CXCL2; CXCL2.
 DR Pfam; PF00048; IL8; 1.
 DR SMART; SM00199; SCY; 1.
 DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
 DR Cytokine; Chemotaxis; Inflammatory response; Signal; 3D-structure.
 FT SIGNAL 1 34
 FT CHAIN 35 107 MACROPHAGE INFLAMMATORY PROTEIN-
 FT 2-ALPHA.
 FT DISULFID 43 69
 FT DISULFID 45 85
 FT STRAND 49 49
 FT TURN 54 56
 FT STRAND 57 63
 FT STRAND 73 78
 FT TURN 79 80
 FT STRAND 83 86
 FT TURN 88 89
 FT TURN 93 95
 FT TURN 98 102
 SQ SEQUENCE 107 AA; 11389 MW; 740F277E928571BA CRC64;

Query Match 21.9%; Score 128.5; DB 1; Length 107;
 Best Local Similarity 33.3%; Pred. No. 4.2e-07;
 Matches 32; Conservative 19; Mismatches 35; Indels 11; Gaps 2;
 QY 8 APPVSMELLAALLLLLLLYTARVDS-----KCKSRKGPRIYSDVKLEMKPKVP 61
 DB 8 AAPNPRLVALLLLVAAASRAAGAPLATELRCCCLQTTQGHILKMQSVKVPSPG 67
 QY 62 HCCEKMWIITTKSVSRVGRGQEHCLHFKLQSTKRFK 97
 DB 68 HCAQTEVIATLKN-----GQKACLNPAAPMWKII 98

RESULT 7
 ID GRO SHEEP STANDARD; PRT; 103 AA.
 AC O46678;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Growth regulated protein precursor (CXCL1).
 GN CXCL1 OR SCYB1 OR GRO.
 OS Ovis aries (Sheep).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
 OC Bovidae; Caprinae; Ovis.
 OX NCBI_TaxID=9940;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99152612; PubMed=10028286;
 RA Modi W.S., Yoshimura T.;

RT "Isolation of novel GRO genes and a phylogenetic analysis of the CXC
 RT chemokine subfamily in mammals.";
 RL Mol. Biol. Evol. 16:180-193(1999).
 CC -!- FUNCTION: Has chemotactic activity for neutrophils.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Belongs to the interleukin alpha (chemokine CXC)
 CC family.
 CC -----
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CC EMBL; U95814; AAB93930.1; -
 CC HSP; P19875; 1QNK.
 CC InterPro; IPR001811; Chemokine_IL8.
 CC InterPro; IPR001089; CXCL2; CXCL2.
 CC Pfam; PF00048; IL8; 1.
 CC PRINTS; PR00437; SMALLCYTCKXC.
 CC SMART; SM00199; SCY; 1.
 CC PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
 CC Cytokine; Growth factor; Inflammatory response; Signal.
 FT SIGNAL 1 30 POTENTIAL.
 FT CHAIN 31 103 GROWTH REGULATED PROTEIN.
 FT DISULFID 39 65 BY SIMILARITY.
 FT DISULFID 41 81 BY SIMILARITY.
 SQ SEQUENCE 103 AA; 10820 MW; C59857F346716695 CRC64;

Query Match 21.7%; Score 127.5; DB 1; Length 103;
 Best Local Similarity 34.4%; Pred. No. 5.1e-07;
 Matches 33; Conservative 16; Mismatches 36; Indels 11; Gaps 2;
 QY 7 RAPVSMRLAALLLLLYTARVDS-----KCKSRKGPRIYSDVKLEMKPKY 60
 DB 3 RAANPAPRLGAMULLLLVAAAGRAAGAPVNVLRCCCLQTTQGHILKMQSVKVP 62
 QY 61 PCCEKMWIITTKSVSRVGRGQEHCLHFKLQSTKRFI 96
 DB 63 PHCGQTEVIATLKT-----GQEVCLNPAAPMWKII 93

RESULT 8
 ID MIP2 RAT STANDARD; PRT; 100 AA.
 AC P30348;
 DT 01-APR-1993 (Rel. 25, Created)
 DT 01-APR-1993 (Rel. 25, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Macrophage inflammatory protein 2 precursor (MIP2) (CINC-3).
 GN CXCL2 OR SCYB2 OR MIP2 OR MIP-2.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Fischer 344; TISSUE=Lung;
 RA Driscoll K.;
 RL Submitted (APR-1992) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Fischer;
 RX MEDLINE=95189993; PubMed=7883948;
 RA Feng L., Xia Y., Yoshimura T., Wilson C.B.;
 RT "Modulation of neutrophil influx in glomerulonephritis in the rat
 RT with anti-macrophage inflammatory protein-2 (MIP-2) antibody.";
 EL J. Clin. Invest. 95:1009-1017(1995).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CD Charles River; TISSUE=Lung;

10-OCT-2003 (Rel. 42, Last annotation update)
DE Growth regulated protein homolog precursor (GRO homolog).
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
OX NCBI_TaxID=9986;
RN [1]
RP SEQUENCE FROM N.A.
RA Schwartz D., Chaverri-Alameda L., Berliner J., Kirchgessner T.,
RA Quisomoro D., Fang J., Tekamp-Olson P., Luis J., Fogelman A.,
RA Territo M.;
RL Submitted (JUL-1994) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Plays a role in monocyte adhesion to the endothelium.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the interleukin alpha (chemokine CXc)
family.
CC
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CC
CC EMBL; U12310; AAA20487.1; -.
CC HSSP; P19875; 10NK.
CC InterPro; IPR001811; Chemokine IL8.
CC InterPro; IPR001089; CXc_chmkine_sm1.
CC Pfam; PF00048; IL8; 1.
CC PRINTS; PR00437; SMALLCYTKCXc.
CC SMART; SM00199; SCY; 1.
CC PROSITE; PS00471; SMALL CYTOKINES CXc; 1.
CC Cytokine; Growth factor; Inflammatory response; Signal.
CC SIGNAL 1 30 PROBABLE.
CC CHAIN 32 104 GROWTH REGULATED PROTEIN HOMOLOG.
CC DISULFID 40 66 BY SIMILARITY.
CC DISULFID 42 82 BY SIMILARITY.
CC SEQUENCE 104 AA; 10900 MW; 10B9D07B65C77F67 CRC64;
Query Match 20.2%; Score 118.5; DB 1; Length 104;
Best Local Similarity 32.6%; Pred. No. 5e-06;
Matches 31; Conservative 17; Mismatches 36; Indels 11; Gaps 2;
AC O46677;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Growth regulated protein homolog beta precursor (GRO-beta).
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=99152612; PubMed=10028286;
RA Modi W.S., Yoshimura T.;
RA "Isolation of novel GRO genes and a phylogenetic analysis of the CXc
RT chemokine subfamily in mammals";
RL Mol. Biol. Evol. 16:180-193(1999).

CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the interleukin alpha (chemokine CXc)
family.
CC
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CC
CC EMBL; U98813; AAB93929.1; -.
CC HSSP; P19875; 10NK.
CC InterPro; IPR001811; Chemokine IL8.
CC InterPro; IPR001089; CXc_chmkine_sm1.
CC Pfam; PF00048; IL8; 1.
CC PRINTS; PR00437; SMALLCYTKCXc.
CC SMART; SM00199; SCY; 1.
CC PROSITE; PS00471; SMALL CYTOKINES CXc; 1.
CC Cytokine; Growth factor; Inflammatory response; Signal.
CC SIGNAL 1 30 POTENTIAL.
CC CHAIN 31 104 GROWTH REGULATED PROTEIN HOMOLOG BETA.
CC DISULFID 40 66 BY SIMILARITY.
CC DISULFID 42 82 BY SIMILARITY.
CC SEQUENCE 104 AA; 10950 MW; 40A8C06A64D67F7B CRC64;
Query Match 20.0%; Score 117.5; DB 1; Length 104;
Best Local Similarity 31.8%; Pred. No. 6.4e-06;
Matches 30; Conservative 18; Mismatches 36; Indels 11; Gaps 2;
AC P09341;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-MAR-1989 (Rel. 10, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Growth regulated protein precursor (CXCL1) (Melanoma growth
DE stimulatory activity) (MGSA) (Neutrophil-activating protein 3) (NAP-
DE 3).
GN CXCL1 OR SCYB1 OR GRO1 OR GROA OR GRO OR MGSA.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=88041072; PubMed=2890161;
RA Anisowicz A., Bardwell L., Sager R.;
RA "Constitutive overexpression of a growth-regulated gene in
RT transformed Chinese hamster and human cells";
RL Proc. Natl. Acad. Sci. U.S.A. 84:7188-7192(1987).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=88328991; PubMed=2970963;
RA Richmond A., Balentien E., Thomas H.G., Flaggs G., Barton D.E.,
RA Spiess J., Bordon R., Francke U., Derynck R.;
RA "Molecular characterization and chromosomal mapping of melanoma
RT growth stimulatory activity, a growth factor structurally related to
RL beta-thromboglobulin";
RN EMBO J. 7:2025-2033(1988).
RN [3]
RP SEQUENCE FROM N.A.

RC TISSUE=Blood;
RX MEDLINE=91057157; PubMed=2129556;
RA Baker N.E., Kucera G., Richmond A.;
RT "Nucleotide sequence of the human melanoma growth stimulatory
RT activity (MGSA) gene.";
RL Nucleic Acids Res. 18:6453-6453 (1990).
RN [4]
RP SEQUENCE FROM N.A.
RC TISSUE=Ovary;
RX MEDLINE=23388257; PubMed=12477932;
RA Srausberg R.L., Teisinger E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wegner L., Shemen C.W., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buettner K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Dattchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange T.E.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahney J., Heiton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Kzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [5]
RP SEQUENCE OF 35-65.
RX MEDLINE=90217938; PubMed=2192761;
RA Schroeder J.-M., Persson N.L.M., Christophers E.;
RT "lipopolysaccharide-stimulated human monocytes secrete, apart from
RT neutrophil-activating peptide 1/interleukin 8, a second neutrophil-
RT activating protein. NH2-terminal amino acid sequence identity with
RT melanoma growth stimulatory activity.";
RL J. Exp. Med. 171:1091-1100 (1990).
RN [6]
RP SEQUENCE OF 35-57.
RX MEDLINE=89246368; PubMed=2655583;
RA Golds E.E., Mason P., Nyirkos P.;
RT "Inflammatory cytokines induce synthesis and secretion of gro protein
RT and a neutrophil chemotactic factor but not beta 2-microglobulin in
RT human synovial cells and fibroblasts.";
RL Biochem. J. 259:585-588 (1989).
RN [7]
RP POSSIBLE FUNCTION.
RX MEDLINE=89356650; PubMed=2670560;
RA Wen D., Rowland A., Derynck R.;
RT "Expression and secretion of gro/MGSA by stimulated human endothelial
RT cells.";
RL EMBO J. 8:1761-1766 (1989).
RN [8]
RP STRUCTURE BY NMR.
RX MEDLINE=93387459; PubMed=8397104;
RA Fairbrother W.J., Reilly D., Colby T., Horuk R.;
RT "1H assignment and secondary structure determination of human
RT melanoma growth stimulatory activity (MGSA) by NMR spectroscopy.";
RL FEBS Lett. 330:302-306 (1993).
RN [9]
RP STRUCTURE BY NMR.
RX MEDLINE=94376296; PubMed=8098848;
RA Fairbrother W.J., Reilly D., Colby T., Hesselgesser J., Horuk R.;
RT "The solution structure of melanoma growth stimulatory activity.";
RL J. Mol. Biol. 242:252-270 (1994).
RN [10]
RP STRUCTURE BY NMR.
RX MEDLINE=95105175; PubMed=7806518;
RA Kim K.S., Clark-Lewis I., Sykes B.D.;
RT "Solution structure of GRO/melanoma growth stimulatory activity
RT determined by 1H NMR spectroscopy.";

RL J. Biol. Chem. 269:32908-32915 (1994).
CC -|- FUNCTION: Has chemotactic activity for neutrophils. May play a
CC role in inflammation and exerts its effects on endothelial cells
CC in an autocrine fashion.
CC -|- SUBCELLULAR LOCATION: Secreted.
CC -|- SIMILARITY: Belongs to the interleukin alpha (chemokine Cx) family.
CC
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CC send an email to license@ebi.ac.uk).
CC
CC EMBL: J03561; AAA35933.1; -
CC EMBL: X12510; CAA31027.1; -
CC EMBL: X54499; CAA38351.1; -
CC EMBL: BC011976; AAH11976.1; -
CC PIR: S13669; A28414.
CC PDB: 1MGS; 30-SEP-94.
CC PDB: 1MSG; 31-MAR-95.
CC PDB: 1MSG; 31-MAR-95.
CC PDB: 1ROD; 10-JUN-96.
CC Genew: HGNC:4602; CXCL1.
CC MIM: 155730; -
CC GO: 0005615; C:extracellular space; TAS.
CC GO: 0008009; F:chemokine activity; TAS.
CC GO: 0008047; F:enzyme activator activity; TAS.
CC GO: 0005102; F:receptor binding; TAS.
CC GO: 0003036; P:actin cytoskeleton organization and biogenesis; TAS.
CC GO: 0008283; P:cell proliferation; TAS.
CC GO: 0005935; P:chemotaxis; TAS.
CC GO: 0007186; P:G-protein coupled receptor protein signalin...; TAS.
CC GO: 0006954; P:inflammatory response; TAS.
CC GO: 0007242; P:intracellular signaling cascade; TAS.
CC GO: 0008285; P:negative regulation of cell proliferation; TAS.
CC GO: 0007401; P:pan-neural process; TAS.
CC InterPro: IPR001811; Chemokine IL8.
CC InterPro: IPR001089; CXCL1; 1.
CC Pfam: PF00048; IL8; 1.
CC PRINTS: PR00437; SMALLCYTCKC.
CC SMART: SM00199; SCY; 1.
CC PROSITE: PS00471; SMALL_CYTOKINES_CXC; 1.
KW Cytokine, growth factor; Inflammatory response; Signal; 3D-structure.
FT SIGNAL 1 34
FT CHAIN 35 107 GROWTH REGULATED PROTEIN.
FT DISULFID 43 69
FT DISULFID 45 85
FT TURN 44 45
FT STRAND 49 49
FT TURN 54 56
FT STRAND 57 63
FT STRAND 73 78
FT TURN 79 80
FT STRAND 83 86
FT TURN 88 89
FT HELIX 91 103
FT TURN 104 104
SQ SEQUENCE 107 AA; 11301 MW; 17048A6B4D765CA2 CRC64;

Query Match 20.0%; Score 117.5; DB 1; Length 107;
Best Local Similarity 32.3%; Pred. NO. 6.6e-06;
Matches 31; Conservative 17; Mismatches 37; Indels 11; Gaps 2;

QY 8 APPVSNRLIARALALLALLALYARVDGS-----KCKSRKGPRIYSDVKLEMKPKYP 61
DB 8 AAPSFRLLRVALLLLVAGRRRAAGASVATELRCCQLQIHPKNIQSVNVKSPGP 67

QY 62 HCEKXNVIITKSVSRVQGEHCHLPKIQSTYRPIK 97
DB 68 HCAQVEVIATLKN-----GRKACLNPAFPIVKIIE 98

RESULT 13

ID M12B HUMAN STANDARD; PRT; 107 AA.
 AC P19876;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Macrophage inflammatory protein-2-beta precursor (MIP2-beta) (CXCL3)
 DE (Growth regulated protein gamma) (GRO-gamma).
 GN CXCL3 OR GRO3 OR SCYB3 OR GROG.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RN SEQUENCE FROM N.A.
 RP TISSUE=Histiocytic lymphoma;
 RX MEDLINE=90354792; PubMed=2201751;
 RA Tekamp-Olson P., Gallegos C., Bauer D., McClain J., Sherry B.,
 RA Fabre M., van Deventer S., Cerami A.
 RT "Cloning and characterization of cDNAs for murine macrophage
 RT inflammatory protein 2 and its human homologues.";
 RL J. Exp. Med. 172:911-919(1990).
 RN [2]
 RN SEQUENCE FROM N.A.
 RP MEDLINE=91017578; PubMed=2217207;
 RA Haskill S., Pearce A., Morris J., Sporn S.A., Anisowicz A., Lee S.W.,
 RA Smith T., Martin G., Ralph P., Sager R.;
 RT "Identification of three related human GRO genes encoding cytokine
 RT functions.";
 RL Proc. Natl. Acad. Sci. U.S.A. 87:7732-7736(1990).
 RN [3]
 RN SEQUENCE FROM N.A.
 RP TISSUE=Lung;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh P.,
 RA Diatchenko L., Marsina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulláhy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 RT human and mouse cDNA sequences".
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -1- FUNCTION: May play a role in inflammation and exert its effects on
 CC endothelial cells in an autocrine fashion.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine Cx) family.
 CC
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 CC
 CC EMBL; X53800; CAA37809.1; -;
 CC EMBL; M36821; AAA63184.1; -;

DR EMBL; BC016308; AAH16308.1; -;
 DR FIR; JH0282; B38290.
 DR HSSP; P19875; IQNK.
 DR Genew; HGNC:4604; CXCL3.
 DR MIM; 139111; -;
 DR GO; GO:0005615; C:extracellular space; TAS.
 DR GO; GO:0008009; F:chemokine activity; TAS.
 DR InterPro; IPR001811; Chemokine_IL8.
 DR InterPro; IPR001089; CXCL3_chemokine_smll.
 DR Pfam; PF00048; IL8; 1.
 DR SMART; SM00199; SCY; 1.
 DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
 KW Cytokine; Chemotaxis; Inflammatory response; Signal.
 FT SIGNAL 34
 FT CHAIN 35 107 MACROPHAGE INFLAMMATORY PROTEIN-
 FT 2-BETA.
 FT DISULFID 43 69 BY SIMILARITY.
 FT DISULFID 45 85 BY SIMILARITY.
 FT CONFLICT 27 28 AA -> G (IN REF. 2).
 SQ SEQUENCE 107 AA; 11342 MW; 97A69946B7F1F070 CRC64;
 Query Match 19.8%; Score 116.5; DB 1; Length 107;
 Best Local Similarity 30.2%; Pred. No. 8.4e-06;
 Matches 29; Conservative 20; Mismatches 36; Indels 11; Gaps 2;
 QY 8 APPVSMELAAALLLLLLLALYTVRVDGS-----KCKSRKGPKIRYSDVKLEMKPKYP 61
 Db 8 AAPSNPELLRVALLLLLLVAASRRRAAGASVVTETLRQCCLQTLQGHILKNIQSNVRSQGP 67
 QY 62 HCEEKVIITTKSVRYRGQEHCLHKLQSTKRFK 97
 Db 69 HCAQTEVIATLKN-----GKXACLNPAAPMVOKILE 98
 RESULT 14
 ID GROA BOVIN STANDARD; PRT; 104 AA.
 AC O46676;
 DT 15-DEC-1998 (Rel. 37, Created)
 DT 15-DEC-1998 (Rel. 37, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Growth regulated protein homolog alpha precursor (GRO-alpha).
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RN SEQUENCE FROM N.A.
 RX MEDLINE=99152612; PubMed=10028286;
 RA Modi W.S., Yoshimura T.;
 RT "Isolation of novel GRO genes and a phylogenetic analysis of the CX
 RT chemokine subfamily in mammals.";
 RL Mol. Biol. Evol. 16:180-193(1999).
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the intercrine alpha (chemokine Cx) family.
 CC
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 CC
 CC EMBL; U95812; AAB93928.1; -;
 DR HSSP; P19875; IQNK.
 DR InterPro; IPR001811; Chemokine_IL8.
 DR InterPro; IPR001089; CXCL3_chemokine_smll.
 DR Pfam; PF00048; IL8; 1.
 DR PRINTS; PR00437; SMALLCYTKXC.
 DR SMART; SM00199; SCY; 1.

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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:30:18 ; Search time 21 Seconds

(without alignments)
508.441 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587

Sequence: 1 MSLLPRAPPVSMRLAAL.....TKRFIKWYNAMNKKRVYEE 111

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 76:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	520	88.6	99	2 JG0182	chemokine BRAK - h
2	143.5	24.4	100	2 S46198	cytokine-induced n
3	138	23.5	100	2 JH0200	macrophage inflam
4	131	22.3	101	2 B28414	growth-regulated p
5	128.5	21.9	107	2 JH0281	macrophage inflam
6	124	21.1	100	2 S21467	macrophage inflam
7	124	21.1	100	2 S55634	macrophage inflam
8	117.5	20.0	107	2 B28434	melanoma growth-st
9	116.5	19.8	107	2 B38230	GRO-gamma precurs
10	111	18.9	96	2 A32954	gro-alpha precurs
11	103	17.5	117	2 B44253	alveolar macrophag
12	97	16.5	96	2 JN0572	neutrophil chemo-a
13	94.5	16.1	126	2 A35766	platelet factor 4,
14	89	15.2	113	2 JG7800	neutrophil activat
15	87.5	14.9	125	2 JN0470	interferon gamma-i
16	85.5	14.6	53	2 S1896	macrophage inflam
17	84	14.3	104	1 PPH04A	platelet factor 4
18	82.5	14.1	103	2 A53096	interleukin-8 prec
19	82.5	14.1	128	1 TGHU	beta-thromboglobul
20	81.5	13.9	95	2 JN0841	interleukin-8 - do
21	81	13.8	101	1 PPH04	platelet factor 4
22	80.5	13.7	53	2 S16431	Gene KC protein -
23	80.5	13.7	98	2 A45492	IP-10 precursor -
24	80.5	13.7	103	2 A26736	transformation-ind
25	80.5	13.7	103	2 S24861	RSV-induced protei
26	80	13.6	119	2 S42861	platelet basic pro
27	79.5	13.5	98	1 TGHUGI	interferon gamma-1
28	79.5	13.5	101	2 S42496	interleukin-8 prec
29	76.5	13.0	114	2 A55010	neutrophil-activat

ALIGNMENTS

RESULT 1

JG0182

chemokine BRAK - human

C;Species: Homo sapiens (man)

C;Date: 23-Jul-1999 #sequence_revision 23-Jul-1999 #text_change 11-May-2000

C;Accession: JG0182

R;Hromas, R.; Broxmeyer, H.E.; Kim, C.; Nakshatri, H.; Christopherson II, K.; Hou, Y.

Biochem. Biophys. Res. Commun. 255, 703-706, 1999

A;Title: Cloning of BRAK, a novel divergent CXCL chemokine preferentially expressed in no:

A;Reference number: JG0182; PMID:99160416; PMID:10049774

A;Accession: JG0182

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-99 <HRO>

A;Cross-references: GS:AF073957

C;Superfamily: beta-thromboglobulin

Query Match 88.6%; Score 520; DB 2; Length 99;

Best Local Similarity 99.0%; Pred. No. 4.3e-47;

Matches 98; Conservative 1; Mismatches 0; Gaps 0;

QY 13 MRLAALALLLALYARVDGSKCKSRGPKRYSDVKLEMKPKYPHCEKRWIIT 72

Db 1 MRLFAALLLLALYARVDGSKCKSRGPKRYSDVKLEMKPKYPHCEKRWIIT 60

QY 73 KSVSRVYRGQEHCLHPKLOSTKRFIKWYNAMNKKRVYEE 111

Db 61 KSVSRVYRGQEHCLHPKLOSTKRFIKWYNAMNKKRVYEE 99

RESULT 2

S46198

cytokine-induced neutrophil chemoattractant 2 - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 20-Jun-2000

C;Accession: S46198; C48988

R;Nakagawa, H.; Komorita, N.; Shibata, F.; Ikesue, A.; Konishi, K.; Fujioka, M.; Kato, H.

Biochem. J. 301, 545-550, 1994

A;Title: Identification of cytokine-induced neutrophil chemoattractants (CINC), rat GRO/

ences and characterization.

A;Reference number: S46198; PMID:94318061; PMID:8043001

A;Accession: S46198

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-100 <NAK>

A;Cross-references: EMBL:D11095; NID:G517143; PIDN:BA04657.1; PID:G517144

R;Nakagawa, H.; Ikesue, A.; Hatakeyama, S.; Kato, H.; Gotoda, T.; Komorita, N.; Watanabe,

Biochem. Pharmacol. 45, 1425-1430, 1993

A;Title: Production of an interleukin-9-like chemokine by cytokine-stimulated rat NREK-491

A;Reference number: A48988; PMID:93228656; PMID:8471066

A;Accession: C48988

A;Status: preliminary

C-X-C chemokine LI
hypothetical prote
hypothetical prote
granulocyte chemot
platelet factor 4
interleukin-8 - ra
granulocyte chemot
interleukin-8 prec
protein unc-31 (im
hypothetical prote
carbamate kinase (M
Mob-1 - rat
replication licens
hypothetical prote
hypothetical prote
flagella accessory

30 76 12.9 132 2 A57325
31 76 12.9 677 2 T27127
32 74 12.6 394 2 S32670
33 73.5 12.5 75 2 A54188
34 73 12.4 105 2 A26774
35 72.5 12.4 101 2 I46871
36 71.5 12.2 75 2 S54188
37 71 12.1 99 2 A37034
38 71 12.1 1186 2 H88869
39 70 12.1 1270 2 T28087
40 70 11.9 308 1 S76941
41 69.5 11.8 98 2 I59277
42 69.5 11.8 807 1 I51685
43 68 11.6 149 2 T25246
44 68 11.6 309 2 S76393
45 68 11.6 581 2 C84251

A:Molecule type: protein
A:Residues: 33-56 <NA>
A:Experimental source: kidney, NRK-49F fibroblasts
C:Note: sequence extracted from NCBI backbone (NCBIP:129130)
C:Superfamily: beta-thromboglobulin

Query Match 24.4%; Score 143.5; DB 2; Length 100;
Best Local Similarity 35.1%; Pred. No. 7.6e-08;
Matches 34; Conservative 19; Mismatches 31; Indels 13; Gaps 3;

QY 8 APPVSMRLIAALILLILLYLTARVDGSD-----KKCSRKGPKIRYSDVVKLEMKPKY 60
||| : ||| ||||| : : : : : : : : : : : : : : : : :
Db 2 APP-PRRLNAAALLLLLLWATSHQPSGTVAVELRCQCLKTLPRVDENIQSLVTTPPG 60
||| : ||| ||||| : : : : : : : : : : : : : : : : :

QY 61 PHCEKMVIITKSRYRGQEHCHLPKLSTKRFIK 97
||| : ||| ||||| : : : : : : : : : : : : : : : : :
Db 61 PHTCTEVIATLKD-----GOEVCLNPQAPRLQKI IQ 92
||| : ||| ||||| : : : : : : : : : : : : : : : : :

RESULT 3
JH0200
macrophage inflammatory protein 2 precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 30-Sep-1990 #sequence_revision 30-Sep-1991 #text_change 20-Aug-1999
C:Accession: JH0200; A32190
R:Tekamp-Olson, P.; Gallagos, C.; Bauer, D.; McClain, J.; Sherry, B.; Fabre, M.; van Dev
J. Exp. Med. 172, 911-919, 1990
A:Title: Cloning and characterization of cDNAs for murine macrophage inflammatory protei
A:Reference number: JH0200; MUID:90354792; PMID:2201751
A:Accession: JH0200
A:Molecule type: mRNA
A:Residues: 1-100 <TX>
A:Cross-references: GB:X53798; NID:G53128; PIDN:CAA37807.1; PID:953129
R:Volpe, S.B.; Sherry, B.; Juers, D.; Davatelis, G.; Yurt, R.W.; Cerami, A.
Proc. Natl. Acad. Sci. U.S.A. 86, 612-616, 1989
A:Title: Identification and characterization of macrophage inflammatory protein 2.
A:Reference number: A32190; MUID:89098980; PMID:2643119
A:Accession: A32190
A:Molecule type: protein
A:Residues: 28-59 <WOL>
C:Superfamily: beta-thromboglobulin
C:Keywords: heparin binding
F:1-27/Domain: signal sequence #status predicted <SIG>
F:28-100/Product: macrophage inflammatory protein 2 #status experimental <MAT>

Query Match 23.5%; Score 138; DB 2; Length 100;
Best Local Similarity 33.3%; Pred. No. 2.9e-07;
Matches 32; Conservative 21; Mismatches 31; Indels 12; Gaps 3;

QY 8 APPVSMRLIAALILLILLYLTARVDGSD-----KKCSRKGPKIRYSDVVKLEMKPKYP 61
||| : ||| ||||| : : : : : : : : : : : : : : : : :
Db 2 APP-TCRLSAAVLILLLLTANHQATGAVVASIELRCQCLKTLPRVDENIQSLVTTPPG 60
||| : ||| ||||| : : : : : : : : : : : : : : : : :

QY 62 HCEEMKVIITKSRYRGQEHCHLPKLSTKRFIK 97
||| : ||| ||||| : : : : : : : : : : : : : : : : :
Db 61 HCAQTEVIATLKG-----GOKVCLDPEAPLVQKI IQ 91
||| : ||| ||||| : : : : : : : : : : : : : : : : :

RESULT 4
B28414
growth-regulated protein precursor - Chinese hamster
C:Species: Crictetus griseus (Chinese hamster)
C:Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 20-Aug-1999
C:Accession: B28414
R:Anisowicz, A.; Bardwell, L.; Sager, R.
Proc. Natl. Acad. Sci. U.S.A. 84, 7188-7192, 1987
A:Title: Constitutive overexpression of a growth-regulated gene in transformed Chinese h
A:Reference number: A94184; MUID:88041072; PMID:2890161
A:Accession: B28414
A:Molecule type: mRNA
A:Residues: 1-101 <ANT>
A:Cross-references: GB:J03560; NID:G191088; PIDN:AAA36985.1; PID:G304509
A:Note: the authors translated the codon CAG for residue 52 as Glu

C:Superfamily: beta-thromboglobulin
F:1-23/Domain: signal sequence #status predicted <Sig>
F:24-101/Product: growth-regulated protein #status predicted <MAT>

Query Match 22.3%; Score 131; DS 2; Length 101;
Best Local Similarity 31.6%; Pred. No. 1.5e-06;
Matches 30; Conservative 21; Mismatches 32; Indels 12; Gaps 2;

QY 10 PYSMILLAAALLLLLLIALLYARV-----DGSCKSRGPKIRYSDVKLEMKPKYP 62
DB 3 PATRLLRAPLLLLLLALLLRLATGAPVANELRCQLQTWTGVLHKNIQSLKVTTPGPH 62
QY 63 CBEKVIITTKSVSRYGQEHLPKIQSTKRFK 97
DB 63 CQTEVIATLKN-----GQEACLNPEAPMWQIKV 92

RESULT 5
JH0281
macrophage inflammatory protein 2 alpha precursor - human
N;Alternate names: gro-beta; growth regulated protein beta; melanoma growth-stimulatory 2
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1991 #sequence revision 30-Sep-1991 #text_change 20-Aug-1999
C;Accession: JH0281; A35931; A38290; A60407
R;Tekamp-Olson, P.; Gallegos, C.; Bauer, D.; McClain, J.; Sherry, B.; Fabre, M.; van Deventer, J. Exp. Med. 172, 911-919, 1990
A;Title: Cloning and characterization of cDNAs for murine macrophage inflammatory protein 2
A;Reference number: JH0200; MUID:90354792; PMID:2201751
A;Accession: JH0281
A;Molecule type: mRNA
A;Residues: 1-107 <TEK>
A;Cross-references: GB:X53799; NID:G34658; PIDN:CAA37808.1; PID:G34659
R;Iida, N.; Grotendorst, G.R. Mol. Cell. Biol. 10, 5596-5599, 1990
A;Title: Cloning and sequencing of a new gro transcriptor from activated human monocytes: c-gro-beta
A;Reference number: A35931; MUID:90377259; PMID:2078213
A;Accession: A35931
A;Molecule type: mRNA
A;Residues: 1-107 <GAS>
A;Cross-references: GB:M57731; GB:M36964; NID:G183626; PIDN:AAAG3182.1; PID:G183627
R;Haskill, S.; Pearce, A.; Morris, J.; Sporn, S.A.; Anisowicz, A.; Lee, S.W.; Smith, T.; Nishimura, K. Proc. Natl. Acad. Sci. U.S.A. 87, 7732-7736, 1990
A;Title: Identification of three related human GRO genes encoding cytokine functions.
A;Reference number: A38290; MUID:91017578; PMID:2217207
A;Accession: A38290
A;Molecule type: mRNA
A;Residues: 1-107 <SPO>
A;Cross-references: GB:M36820; NID:G183628; PIDN:AAAG3183.1; PID:G183629
R;Sporn, S.A.; Eierman, D.F.; Johnson, C.B.; Morris, J.; Martin, G.; Ladner, M.; Haskill, J. Immunol. 144, 4434-4441, 1990
A;Title: Monocyte adherence results in selective induction of novel genes sharing homology with the macrophage inflammatory protein 2 alpha
A;Reference number: A60407; MUID:90257367; PMID:2341726
A;Accession: A60407
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 56-107 <SPO>
C;Superfamily: beta-thromboglobulin
C;Keywords: inflammation
F:1-34/Domain: signal sequence #status predicted <Sig>
F:35-107/Product: macrophage inflammatory protein 2 alpha #status predicted <MAT>

Query Match 21.9%; Score 128.5; DB 2; Length 107;
Best Local Similarity 31.3%; Pred. No. 3e-06;
Matches 32; Conservative 18; Mismatches 35; Indels 11; Gaps 2;

QY 8 APPVSMRLLAAALLLLIALLYARVDS-----KCKSRGPKIRYSDVKLEMKPKYP 61
DB 8 AAPSPPRLRVALLLLLLVAASRAAPGATELRCCQLQTLOGIHLKNIQSVKVKSPG 67
QY 62 HCEEKWIITTKSVSRYGQEHLPKIQSTKRFK 97
DB 68 HCAQTEVIATLKN-----GQACLNPEAPMWQIKV 98

RESULT 6

S21467

macrophage inflammatory protein 2 - rat

N:Alternate names: chemottractant P-1

C:Species: Rattus norvegicus (Norway rat)

C>Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 20-Aug-1999

C:Accession: S21467; D48988

R:Driscoll, K.

submitted to the EMBL Data Library, April 1992

A:Reference number: S21467

A:Accession: S21467

A>Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-100 <DRI>

A:Cross-references: EMBL:X65647; NID:G56665; PIDN:CAA46599.1; PID:G56666

R:Nakagawa, H.; Ikessue, A.; Hatakeyama, S.; Kato, H.; Gotoda, T.; Komorita, N.; Watanabe

Biochem. Pharmacol. 45, 1425-1430, 1993

A:Title: Production of an interleukin-8-like chemokine by cytokine-stimulated rat NRK-49

A:Reference number: A48988; MUID:93228656; PMID:8471066

A:Accession: D48988

A>Status: preliminary

A:Molecule type: protein

A:Residues: 32-45 <NAK>

A:Experimental source: kidney, NRK-49F fibroblasts

A>Note: sequence extracted from NCBI backbone (NCBIP:129129)

C:Superfamily: beta-thromboglobulin

Query Match 21.1%; Score 124; DB 2; Length 100;

Best Local Similarity 33.7%; Pred. No. 8.2e-06;

Matches 32; Conservative 16; Mismatches 37; Indels 10; Gaps 3;

QY 8 APPVSMRLAAALLLLLLLY---TARVDGS--KCKSRGPKIRYSDVKLEMPKYPH 62

DB 2 APPTRQLLNAVLLVLLLLATNHOQTGVVAVSELRCQCLTLPRVDFKNIOQLTVTPPGPH 61

QY 63 CEERKVIITTSVSRVGRQEHLPKQSTKRFIK 97

DB 62 CAQTEVIATLKD-----GHEVCLNPEAPLVQRIVQ 91

RESULT 7

I55614

macrophage inflammatory protein-2 - rat

C:Species: Rattus sp. (rat)

C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 20-Aug-1999

C:Accession: I55614

R:Feng, L.; Xia, Y.; Yoshimura, T.; Wilson, C.B.

J. Clin. Invest. 95, 1009-1017, 1995

A:Title: Modulation of neutrophil influx in glomerulonephritis in the rat with anti-mac

A:Reference number: I55614; MUID:95189993; PMID:7883948

A:Accession: I55614

A>Status: preliminary; translated from GB/EMBL/DBD

A:Molecule type: mRNA

A:Cross-references: GB:S77604; NID:G998406; PIDN:AAB33749.1; PID:G998407

C:Superfamily: beta-thromboglobulin

Query Match

Best Local Similarity 33.7%; Pred. No. 8.2e-06;

Matches 32; Conservative 16; Mismatches 37; Indels 10; Gaps 3;

QY 8 APPVSMRLAAALLLLLLLY---TARVDGS--KCKSRGPKIRYSDVKLEMPKYPH 62

DB 2 APPTRQLLNAVLLVLLLLATNHOQTGVVAVSELRCQCLTLPRVDFKNIOQLTVTPPGPH 61

QY 63 CEERKVIITTSVSRVGRQEHLPKQSTKRFIK 97

DB 62 CAQTEVIATLKD-----GHEVCLNPEAPLVQRIVQ 91

RESULT 8

A28414

melanoma growth-stimulatory activity precursor - human

N:Alternate names: fibroblast-derived neutrophil-activating protein gamma; GRO-alpha; grc

C:Species: Homo sapiens (man)

C>Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 20-Aug-1999

C:Accession: S13669; A28414; S00993; B60401; S03976; A47626; B46519

R:Baker, N.E.; Kucera, G.; Richmond, A.

Nucleic Acids Res. 18, 6453, 1990

A:Title: Nucleotide sequence of the human melanoma growth stimulatory activity (MOSA) ge

A:Reference number: S13669; MUID:91057157; PMID:2129556

A:Accession: S13669

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-107 <BAK>

A:Cross-references: EMBL:X54489; NID:G34625; PIDN:CAA38361.1; PID:G34626

R:Anisowicz, A.; Bardswell, L.; Sager, R.

Proc. Natl. Acad. Sci. U.S.A. 84, 7188-7192, 1987

A:Title: Constitutive overexpression of a growth-regulated gene in transformed Chinese h

A:Reference number: A94184; MUID:88041072; PMID:2890161

A:Accession: A28414

A:Molecule type: mRNA

A:Residues: 1-107 <ANI>

A:Cross-references: GB:J03561; NID:G183622; PIDN:AAA35933.1; PID:G306806

R:Richmond, A.; Valentien, E.; Thomas, H.G.; Flagg, G.; Barton, D.E.; Spiess, J.; Borden

EMBO J. 7, 2025-2033, 1988

A:Title: Molecular characterization and chromosomal mapping of melanoma growth stimulat

A:Reference number: S00983; MUID:88328991; PMID:2970963

A:Accession: S00983

A:Molecule type: mRNA

A:Residues: 1-107 <RIC>

A:Cross-references: EMBL:X12510; NID:G34621; PIDN:CAA31027.1; PID:G34622

R:Schroeder, J.M.; Sticherling, M.; Henneicke, H.H.; Freisner, W.C.; Christophers, E.

J. Immunol. 144, 2223-2232, 1990

A:Title: IL-1alpha or tumor necrosis factor-alpha stimulate release of three NAP-1/IL-8-

A:Reference number: A60401; MUID:90187866; PMID:2179408

A:Accession: B60401

A:Molecule type: protein

A:Residues: 35-42, 'X', 44, 'X', 46-48 <SCH>

A:Experimental source: dermal fibroblasts

R:Gold, E.B.; Mason, P.; Nyirkos, P.

Biochem. J. 259, 585-588, 1989

A:Title: Inflammatory cytokines induce synthesis and secretion of gro protein and a neut

A:Reference number: S03975; MUID:89246368; PMID:2655583

A:Accession: S03975

A:Molecule type: protein

A:Residues: 35-41, 'X', 43-49, 'X', 51-52, 'XX', 55-57 <GOL>

R:Schroeder, J.M.; Pearson, N.L.M.; Christophers, E.

J. Exp. Med. 171, 1091-1100, 1990

A:Title: Lipopolysaccharide-stimulated human monocytes secrete, apart from neutrophil-act

nity with melanoma growth stimulatory activity.

A:Reference number: A47626; MUID:90217938; PMID:2182761

A:Accession: A47626

A:Molecule type: protein

A:Residues: 35-63, 'X', 65 <SC2>

A:Experimental source: LPS-stimulated monocytes

R:Probst, P.; De Wolf-Peters, C.; Conings, R.; Opdenakker, G.; Billiau, A.; Van Damme, C

J. Immunol. 150, 1000-1010, 1993

A:Title: Identification of a novel granulocyte chemotactic protein (GCP-2) from human tun

A:Reference number: A46519; MUID:93139489; PMID:8423327

A:Accession: B46519

A:Molecule type: protein

A:Residues: 35-62 <PRO>

A:Experimental source: MG-63 osteosarcoma cells

C:Genetics:

A:Gene: GDB:GRO1

A:Cross-references: GDB:120181; OMIM:155730

A:Map position: 4q21-q21

C:Superfamily: beta-thromboglobulin

F:1-34/Domain: signal sequence #status predicted <SIG>

F:35-107/Product: melanoma growth-stimulatory activity #status experimental <MAT>

Query Match 20.0%; Score 117.5; DB 2; Length 107;

Best Local Similarity 32.3%; Pred. No. 4.2e-05;

Matches 31; Conservative 17; Mismatches 37; Indels 11; Gaps 2;

QY 8 APPVSMELAAALLLLALLIYATVDGS-----KCKSRKGPXYSDVVKLEMKPKYP 61
 DB 8 AAFSNPFLRLVALLLLLLVAAARRAGASVATLRCCLQTLQGHKPKNIOGVNVRSPGP 67
 QY 62 HCEKMWIITKSVSYRGQEHCHLHPKLOSTKRFK 97
 DB 68 HCAQTEVIATLKN-----GKACLNPAFSPVQKIE 98
 RESULT 9
 GRO-gamma precursor - human
 N/Alternate names: growth-regulated protein gamma; macrophage inflammatory protein 2 beta
 C/Species: Homo sapiens (man)
 C/Date: 31-May-1991 #sequence_revision 27-Oct-1995 #text_change 20-Aug-1999
 C/Accession: J03290; B38290; C46519
 R/Tekamp-Olson, P.; Gallegos, C.; Bauer, D.; McClain, J.; Sherry, B.; Fabre, M.; van Der
 J. Exp. Med. 172, 911-919, 1990
 A/Title: Cloning and characterization of cDNAs for murine macrophage inflammatory protein
 A/Reference number: J03290; MUID:90354792; PMID:2201751
 A/Accession: J03290
 A/Molecule type: mRNA
 A/Residues: 1-107 <PEK>
 A/Cross-references: GB:X53800; NID:G34662; PIDN:CAA37809.1; PID:G34663
 R/Haskill, S.; Peace, A.; Morris, J.; Sporn, S.A.; Anisowicz, A.; Lee, S.W.; Smith, T.;
 Proc. Natl. Acad. Sci. U.S.A. 87, 7732-7736, 1990
 A/Title: Identification of three related human GRO genes encoding cytokine functions.
 A/Reference number: A38290; MUID:91017578; PMID:2217207
 A/Accession: B38290
 A/Molecule type: mRNA
 A/Residues: 1-26, 'G', 29-107 <HAS>
 A/Cross-references: GB:M36821; NID:G183632; PIDN:AAA63184.1; PID:G183633
 R/Probst, P.; De Wolf-Peters, C.; Conings, R.; Opdenakker, G.; Billiau, A.; Van Damme,
 J. Immunol. 150, 1000-1010, 1993
 A/Title: Identification of a novel granulocyte chemotactic protein (GCP-2) from human tu
 A/Reference number: A46519; MUID:93139489; PMID:8423327
 A/Accession: C46519
 A/Molecule type: protein
 A/Residues: 35-52 <PRO>
 A/Experimental source: MG-63 osteosarcoma cells
 C/Genetics:
 A/Map position: 4q21
 C/Superfamily: beta-thromboglobulin
 F/1-34/Domain: signal sequence #status predicted <SIG>
 F/35-107/Product: GRO-gamma #status experimental <MAT>
 Query Match 19.8%; Score 116.5; DB 2; Length 107;
 Best Local Similarity 30.2%; Pred. No. 5.3e-05;
 Matches 29; Conservative 20; Mismatches 36; Indels 11; Gaps 2;
 QY 8 APPVSMELAAALLLLALLIYATVDGS-----KCKSRKGPXYSDVVKLEMKPKYP 61
 DB 8 AAFSNPFLRLVALLLLLLVAAARRAGASVATLRCCLQTLQGHKPKNIOGVNVRSPGP 67
 QY 62 HCEKMWIITKSVSYRGQEHCHLHPKLOSTKRFK 97
 DB 68 HCAQTEVIATLKN-----GKACLNPAFSPVQKIE 98
 RESULT 10
 A32954
 gro-alpha precursor - mouse
 N/Alternate names: gro protein; growth regulated protein; melanoma growth-stimulating ac
 C/Species: Mus musculus (house mouse)
 C/Date: 20-Oct-1989 #sequence_revision 20-Oct-1989 #text_change 20-Aug-1999
 C/Accession: A32954; J0081
 R/Oquendo, P.; Alberta, J.; Wen, D.; Graycar, J.L.; Derynck, R.; Stiles, C.D.
 J. Biol. Chem. 264, 4133-4137, 1989
 A/Title: The platelet-derived growth factor-inducible KC gene encodes a secretory protei
 A/Reference number: A32954; MUID:89139485; PMID:2917992
 A/Accession: A32954
 A/Molecule type: mRNA

A/Residues: 1-96 <OOU>
 A/Cross-references: GB:J04596; NID:G201042; PIDN:AAA40131.1; PID:G201043
 R/Rybeck, R.P.; MacDonald-Bravo, H.; Mattei, M.G.; Bravo, R.
 Exp. Cell Res. 180, 266-275, 1989
 A/Title: Cloning and sequence of a secretory protein induced by growth factors in mouse f
 A/Reference number: J0081; MUID:89078502; PMID:2909392
 A/Accession: J0081
 A/Molecule type: mRNA
 A/Residues: 1-96 <RVS>
 C/Comment: This protein is basic and lacks threonine, phenylalanine, and tyrosine.
 C/Genetics:
 A/Map position: 5
 C/Superfamily: beta-thromboglobulin
 C/Keywords: extracellular protein
 F/1-24/Domain: signal sequence #status predicted <SIG>
 F/25-96/Product: gro-alpha #status predicted <MAT>
 Query Match 18.9%; Score 111; DB 2; Length 96;
 Best Local Similarity 30.8%; Pred. No. 0.00018;
 Matches 28; Conservative 18; Mismatches 37; Indels 8; Gaps 2;
 QY 10 PVSMLLAALLLL---LALYATVDGSKCKSRKGPXYSDVVKLEMKPKYPHCEK 66
 DB 3 PATRSLLCAALLLLATSLATGAPIANELRCCLQTLQWAGIHLKNIQSLKVLPSGPHCTQT 62
 QY 67 MWIITKSVSYRGQEHCHLHPKLOSTKRFK 97
 DB 63 EVIATLKN-----GREACLDPEAPLVQKIVQ 88
 RESULT 11
 B44253
 alveolar macrophage chemotactic factor-II (AMCF-II) intercrine-alpha protein - pig
 C/Species: Sus scrofa domestica (domestic pig)
 C/Date: 30-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 20-Aug-1999
 C/Accession: B44253
 R/Goodman, R.B.; Foster, D.C.; Mathewes, S.L.; Osborn, S.G.; Kullper, J.L.; Forstrom, J.V
 Biochemistry 31, 10483-10490, 1992
 A/Title: Molecular cloning of porcine alveolar macrophage-derived neutrophil chemotactic
 A/Reference number: A44253; MUID:93041741; PMID:1420165
 A/Accession: B44253
 A/Status: preliminary
 A/Molecule type: mRNA; protein
 A/Residues: 1-117 <GOO>
 A/Cross-references: GB:M99368; NID:G164325; PIDN:AAA30991.1; PID:G164326
 A/Experimental source: alveolar macrophage
 A/Note: sequence extracted from NCBI backbone (NCBIN:117417, NCBIPI:117418)
 C/Superfamily: beta-thromboglobulin
 Query Match 17.5%; Score 103; DB 2; Length 117;
 Best Local Similarity 31.2%; Pred. No. 0.0015;
 Matches 35; Conservative 11; Mismatches 46; Indels 20; Gaps 3;
 QY 1 MSLLPFRAP--PVSMLLAALLLL---ALYATVDGSKCKSRKGP 45
 DB 1 MRLTSRATRVSPSGLLCAVLAALLTPSGFLASPIEAAEAAYVRELCMLTTTPG 60
 QY 46 IRYSDVKLEMKPKYPHCEKMWIITKSVSYRGQEHCHLHPKLOSTKRFK 97
 DB 61 IHPKMSLDLOVTPAGPQCSKAEVATLKN-----GKEVCLDPKAPLKIIVQ 107
 RESULT 12
 JN0572
 neutrophil chemo-attractant Gro protein precursor - rat
 N/Alternate names: CINC; cytokine-induced neutrophil chemoattractant; interleukin-8-like
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 20-Jun-2000
 C/Accession: JN0572; J01519; A34481; A48988; B4988; S51214
 R/Konishi, K.; Takata, Y.; Yamamoto, M.; Yomogida, K.; Watanabe, K.; Tsurufuji, S.; Fujic
 Gene 126, 285-286, 1993
 A/Title: Structure of the gene encoding rat neutrophil chemo-attractant Gro.
 A/Reference number: JN0572; MUID:93246259; PMID:8482545

A;Accession: JN0572
A;Molecule type: DNA
A;Residues: 1-96 <KON>
A;Cross-references: DDBJ:D11445; NID:G391854; PIDN:BAA02009.1; PID:G220755
R;Huang, S.; Paulauskis, J.D.; Kobzik, L.
Biochem. Biophys. Res. Commun. 184, 922-929, 1992
A;Title: Rat KC cDNA cloning and mRNA expression in lung macrophages and fibroblasts.
A;Reference number: JQ1519; MUID:92246987; PMID:1374243
A;Accession: JQ1519
A;Molecule type: mRNA
A;Residues: 1-32, 'S', 34-96 <HUA>
A;Cross-references: GB:M86535
A;Experimental source: alveolar macrophage
A;Note: The authors translated the codon AGT for residue 33 as Cys, AAC for residue 46 and
R;Watanabe, K.; Konishi, K.; Fujioaka, M.; Kinoshita, S.; Nakagawa, H.
J. Biol. Chem. 264, 19559-19563, 1989
A;Title: The neutrophil chemotactant produced by the rat kidney epithelioid cell line
A;Reference number: A34481; MUID:90062049; PMID:2684956
A;Accession: A34481
A;Molecule type: protein
A;Residues: 25-96 <WAT>
R;Nakagawa, H.; Ikesue, A.; Hatakeyama, S.; Kato, H.; Gotoda, T.; Komorita, N.; Watanabe
Biochem. Pharmacol. 45, 1425-1430, 1993
A;Title: Production of an interleukin-8-like chemokine by cytokine-stimulated rat NRK-49
A;Reference number: A48988; MUID:93228656; PMID:8471066
A;Accession: A48988
A;Status: preliminary
A;Molecule type: protein
A;Residues: 25-57 <NAK>
A;Experimental source: kidney, NRK-49F fibroblasts
A;Note: sequence extracted from NCBI backbone (NCBIP:129132)
R;Hanzawa, H.; Hanyama, H.; Watanabe, K.; Tsurufuji, S.
FEBS Lett. 354, 207-212, 1994
A;Title: The three dimensional structure of rat cytokine CINC/Gro in solution by homonuc
A;Reference number: S51214; MUID:95046335; PMID:7957525
A;Contents: annotation; conformation by (1)H-NMR, residues 25-96
A;Accession: S51214
A;Molecule type: protein
A;Residues: 25-96 <HAN>
A;Comment: This protein has chemotactic activity for neutrophils and has melanoma growth
C;Genetics:
A;Gene: gro; KC
A;Introns: 24/1; 65/2; 92/2
C;Superfamily: beta-thromboglobulin
C;Keywords: cytokine; disulfide bond
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DB 8 LLCAALPVLA-----TSRQATGAPVANELRCQLQTVAGTHFKNIQSLKWPFGPHCTQTE 63
QY 68 VIITTSVSRVYRGQEHLPKLOSTKRFK 97
DB 64 VIATLKN-----GREACLDPEAPMVQKIVQ 88
RESULT 13
A35766
platelet factor 4, interferon gamma-induced, precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 05-Oct-1990 #sequence_revision 05-Oct-1990 #text_change 20-Aug-1999
C;Accession: A35766
R;Farber, J.M.
Proc. Natl. Acad. Sci. U.S.A. 87, 5238-5242, 1990
A;Title: A macrophage mRNA selectively induced by gamma-interferon encodes a member of th
A;Reference number: A35766; MUID:90319087; PMID:2115167
A;Accession: A35766
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-126 <FAR>
A;Cross-references: GB:M34815; NID:G199692; PIDN:AAA39706.1; PID:G199693
C;Superfamily: beta-thromboglobulin
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Best Local Similarity 25.5%; Pred. No. 0.012;
Matches 26; Conservative 21; Mismatches 40; Indels 15; Gaps 4;
QY 16 LAAALLLLALLALY-----TARVDGSKCK-SRGPKIRYSDVKLEMKPKYPHCEEK 66
DB 1 MKSAVLFLLIIELEGQVGRGTIVIRNARCSITSRGTIHYKSLKDLKQFAPSNCNKT 60
QY 67 MVITTSVSRVYRGQEHLPKLOSTKRFK-WYNAWNEKR 107
DB 61 EIIATLKN-----GDOTCLDPSANVVKLMKEWEKINQKKK 97
RESULT 14
JC7800
neutrophil activating peptide-2 precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 02-Apr-2002
C;Accession: JC7800
R;Oda, M.; Haruta, H.; Nagao, M.; Nagata, Y.
Biochem. Biophys. Res. Commun. 290, 865-868, 2002
A;Title: Isolation and characterization of mouse homolog of the neutrophil activating pei
A;Reference number: JC7800
A;Contents: Megakaryocyte
A;Accession: JC7800
A;Molecule type: mRNA
A;Residues: 1-113 <ODA>
A;Cross-references: DDBJ:AB042817
A;Comment: This protein is highly basic, and is specifically induced by thrombopoietin st
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C;Genetics:
A;Gene: nap-2
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Best Local Similarity 29.2%; Pred. No. 0.041;
Matches 26; Conservative 15; Mismatches 36; Indels 12; Gaps 3;
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DB 23 LLLGLLILVALPULTAGSKGMDPYIELRCRCINTTISGIFNSISLVNVRPGVHCADVE 82
QY 68 VIITTSVSRVYRGQEHLPKLOSTKRFI 96
DB 83 VIATLKN-----GQKCLDNPAPGVKIV 106
RESULT 15
JN0470
interferon gamma-induced protein HuMIG - human
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 28-May-1999
C;Accession: JN0470
R;Farber, J.M.
Biochem. Biophys. Res. Commun. 192, 223-230, 1993
A;Title: HuMig: a new human member of the chemokine family of cytokines.
A;Reference number: JN0470; MUID:93236577; PMID:8476424
A;Accession: JN0470
A;Molecule type: mRNA
A;Residues: 1-125 <FAR>
A;Cross-references: GB:X72755; GB:S60728; NID:G311375; PIDN:CAA51284.1; PID:G311376
C;Superfamily: beta-thromboglobulin
C;Keywords: cytokine

Query Match 14.9% Score 87.5; DB 2; Length 125;
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Db 9 LLGIILLVLIGVQGTFFVRKGRGSCISTNQTIHLQSLKDLKQFAPSPSCKEIIATLK 68
Qy 74 SVSEYRGOEHCHPKLQSTKRFI-KWYNANNEKRR 107
Db 69 N-----GVQTCLNPDSADVRELKKWEKQVSQKKK 98

Search completed: April 22, 2004, 12:34:20
Job time : 22 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:33:53 ; Search time 42 Seconds
(without alignments)
730.684 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587

Sequence: 1 MSLLPRAPPVSMRLAAAL.....TKRFKYNWMEKRVTEE 111

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 1133595

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
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- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	587	100.0	111	9	US-09-978-295A-370
3	587	100.0	111	9	US-09-978-697-370
4	587	100.0	111	9	US-09-978-192A-370
5	587	100.0	111	9	US-09-978-832A-370
6	587	100.0	111	10	US-09-978-189-370
7	587	100.0	111	10	US-09-978-608A-370
8	587	100.0	111	10	US-09-978-585A-370
9	587	100.0	111	10	US-09-978-191A-370
10	587	100.0	111	10	US-09-978-403A-370
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12	587	100.0	111	10	US-09-999-833A-370
13	587	100.0	111	10	US-09-981-915A-370
14	587	100.0	111	10	US-09-978-824-370
15	587	100.0	111	10	US-09-918-585A-370

16	587	100.0	111	10	US-09-978-423A-370	Sequence 370, App
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18	587	100.0	111	10	US-09-999-830A-370	Sequence 370, App
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ALIGNMENTS

RESULT 1
US-09-816-920-2
; Sequence 2, Application US/09816920
; Patent No. US2002011918A1
; GENERAL INFORMATION:
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Roth, Iris
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING BOLEKINE
; FILE REFERENCE: F1192-2 (US)
; CURRENT APPLICATION NUMBER: US/09/816,920
; CURRENT FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US 60/064,249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: US 60/083,336
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-816-920-2

Query Match 100.0%; Score 587; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 61 PHCEKXVITTSVRYRGQEHCLHPKLOSTKRFKKNWNNKERVYEE 111

RESULT 2

US-09-978-295A-370
; Sequence 370, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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Query Match 100.0%; Score 587; DB 9; Length 111;

Best Local Similarity 100.0%; Pred. No. 4.9e-58;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Patent No. US20020169284A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 PCEEKWIIITKSVSRGQEHCHLHKLOSTKRFIKWYNWNEKRVYEE 111

RESULT 4
US-09-978-192A-370
Sequence 370, Application US/09978192A
Patent No. US20020177553A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerttsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James,
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: E2630P1C9
CURRENT APPLICATION NUMBER: US/09/978,192A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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Query Match 100.0%; Score 587; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 61 PCEEKWVITTSVSRVSGQCHLPKLOSTKRFIKYNWNEKRYVEE 111

RESULT 5
US-09-999-832A-370
; Sequence 370, Application US/09999832A

;; Publication No. US20020192706A1
;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Baker Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan
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;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE OF INVENTION: Acids Encoding the Same
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; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 9; Length 111;

Best Local Similarity 100.0%; Pred. No. 4,9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPY 60

Db 1 MSLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPY 60

QY 61 PHCEKXVIITKSVSRYGQEHCLHPKIQSTKRFKWNANNEKRRVYEE 111

Db 61 PHCEKXVIITKSVSRYGQEHCLHPKIQSTKRFKWNANNEKRRVYEE 111

RESULT 6

US-09-978-189-370
; Sequence 370, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
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PRIOR APPLICATION NUMBER: 60/078939
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PRIOR APPLICATION NUMBER: 60/079294
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PRIOR APPLICATION NUMBER: 60/079663
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PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
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PRIOR FILING DATE: 1998-03-30
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PRIOR FILING DATE: 1998-04-21
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PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
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PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554

;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
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;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPPVSMRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

QY 61 PHCEKNVITTSVSRVYRQGEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKNVITTSVSRVYRQGEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 7

US-09-978-608A-370
; Sequence 370, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc

;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James;
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Shelton, David L.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C22
;; CURRENT APPLICATION NUMBER: US/09/978,608A
;; CURRENT FILING DATE: 2001-10-16
;; NUMBER OF SEQ ID NOS: 624
;; Prior Application removed - See File Wrapper or Palm
;; SEQ ID NO 370
;; LENGTH: 111
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-978-608A-370

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPPVSMRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

QY 61 PHCEKNVITTSVSRVYRQGEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKNVITTSVSRVYRQGEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 8

US-09-978-585A-370
; Sequence 370, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Baker Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.

```
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 370
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-978-585A-370

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4,9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MSLLPRAPVSVRLAAALLLLLLLYTARYDVGSKCKSRKGPKIRYSDVKKLEMPKY 60
Db      1 MSLLPRAPVSVRLAAALLLLLLLYTARYDVGSKCKSRKGPKIRYSDVKKLEMPKY 60

QY      61 PHCEKMWITTSVSRVGRQEHCHLPKLSQSTKRTIKWNANWKKRRVYEE 111
Db      61 PHCEKMWITTSVSRVGRQEHCHLPKLSQSTKRTIKWNANWKKRRVYEE 111

RESULT 9
US-09-978-191A-370
; Sequence 370, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C4
; CURRENT APPLICATION NUMBER: US/09/978,191A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
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; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
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; PRIOR FILING DATE: 1998-04-09
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; PRIOR FILING DATE: 1998-04-15
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; PRIOR APPLICATION NUMBER: 60/081838
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; PRIOR FILING DATE: 1998-05-07
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; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLLPRAPPVSMRLAALLLLALYARVDGSKCSCRKGPRIYSDVKLEMKPKY 60
Db 1 MSLLPRAPPVSMRLAALLLLALYARVDGSKCSCRKGPRIYSDVKLEMKPKY 60
QY 61 PHCEKRWIITKSVSRVGRQEHCHLHPKLOSTKRFIKWYNNANNEKERVYEE 111
Db 61 PHCEKRWIITKSVSRVGRQEHCHLHPKLOSTKRFIKWYNNANNEKERVYEE 111

RESULT 10
US-09-978-403A-370
; Sequence 370, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: F2630P1C17
; CURRENT APPLICATION NUMBER: US/09/978,403A
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
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RESULT 11
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; Sequence 370, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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22	Sequence 370, Application US/09999833	
23	Publication No. US20030054405A1	
24	GENERAL INFORMATION:	
25	APPLICANT: Ashkenazi, Avi	
26	APPLICANT: Baker Kevin P	
27	APPLICANT: Botstein, David	
28	APPLICANT: Desnoyers, Luc	
29	APPLICANT: Eaton, Dan	
30	APPLICANT: Ferrara, Napoleon	
31	APPLICANT: Frittaffo, Eileen	
32	APPLICANT: Gong, Sherman	
33	APPLICANT: Gao, Wei-Qiang	
34	APPLICANT: Gerber, Hanspeter	
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42	APPLICANT: Kuo, Sophia S.	
43	APPLICANT: Napier, Mary A.	
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45	APPLICANT: Paoni, Nicholas F.	
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47	APPLICANT: Shelton, David L.	
48	APPLICANT: Stewart, Timothy A.	
49	APPLICANT: Tumas, Daniel	
50	APPLICANT: Williams, P. Mickey	
51	APPLICANT: Wood, William I.	
52	TITLE OF INVENTION: Acids and Tri	
53	TITLE OF INVENTION: Acids Encoding	
54	FILE REFERENCE: P2630F1C5	
55	CURRENT APPLICATION NUMBER: US/09/9/9	
56	CURRENT FILING DATE: 2001-10-24	
57	PRIOR APPLICATION NUMBER: 09/918585	
58	PRIOR FILING DATE: 2001-07-30	
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Query Match      100.0%; Score 587; DB 10; Length 111;
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Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 13
US-09-981-915A-370
; Sequence 370, Application US/09981915A
; Publication No. US20030084986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C12
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; CURRENT FILING DATE: 2001-10-16
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
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PRIOR APPLICATION NUMBER: 60/083666
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-13
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PRIOR APPLICATION NUMBER: 60/085700
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PRIOR APPLICATION NUMBER: 60/085689
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PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCCKSRKGPRIYSDVKLEMPKY 60
DB 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCCKSRKGPRIYSDVKLEMPKY 60
QY 61 PHCEKMWIITTKSVSRGQEHCHLPKLOSTKRFIKYNANNEKRYVEE 111
DB 61 PHCEKMWIITTKSVSRGQEHCHLPKLOSTKRFIKYNANNEKRYVEE 111

RESULT 14

US-09-978-824-370
Sequence 370, Application US/09978824
Publication No. US2003005216A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Fan, James;
APPLICANT: Faoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC14
CURRENT APPLICATION NUMBER: US/09/978,824
CURRENT FILING DATE: 2001-10-17
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649

[illegible]

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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 4.9e-58;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1  MSLPRAPPVSMELLAAALLLLLTARVDSKCKSRGPKIRYSDVKKLEMKPKY 60

QY      61  PHCEKMWIITKVSRYRGOEHCLHPLKLOSTKRFIKWNNANNEKRRVYEE 111
DB      61  PHCEKMWIITKVSRYRGOEHCLHPLKLOSTKRFIKWNNANNEKRRVYEE 111

RESULT 15
US-09-918-585A-370
; Sequence 370, Application US/0918585A
; Publication No. US20030060408A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijav, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
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; PRIOR FILING DATE: 1998-04-22
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; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082700

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Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred No. 4.9e-58; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSLPPRRAPVSMRLAAALLLLLLLALYARVDGSKCSCSRKGPRIYSDVKLEMKPKY 60
Db 1 MSLPPRRAPVSMRLAAALLLLLLLALYARVDGSKCSCSRKGPRIYSDVKLEMKPKY 60
Qy 61 PHCEEKWIIITTKSVSRYGQEHCLPKLQSTKRFIKWYNANNEKRRVYEE 111
Db 61 PHCEEKWIIITTKSVSRYGQEHCLPKLQSTKRFIKWYNANNEKRRVYEE 111

Search completed: April 22, 2004, 12:39:35
Job time : 44 secs

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;; PRIOR APPLICATION NUMBER: 60/082796
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;; PRIOR FILING DATE: 1998-05-15
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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/086023

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 22, 2004, 12:25:57 ; Search time 55 seconds
(without alignments)
570.232 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587

Sequence: 1 MSLLPRAPPVSMRLAAL.....TKRFKWNAMNKRVRVYE 111

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: A_Geneseq_29Jan04.*

1: geneseqp1980s.*

2: geneseqp1990s.*

3: geneseqp2000s.*

4: geneseqp2001s.*

5: geneseqp2002s.*

6: geneseqp2003s.*

7: geneseqp2003bs.*

8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	587	100.0	111	2	AAY41739 Human PRO
2	587	100.0	111	2	RAY28290 Tim-1 PRO
3	587	100.0	111	3	AAB33423 Human PRO
4	587	100.0	111	3	AAB44295 Human PRO
5	587	100.0	111	4	AAB88478 Human mem
6	587	100.0	111	5	ABG70798 Human Bol
7	587	100.0	111	6	ABO25241 Novel hum
8	587	100.0	111	6	ABU72247 Novel hum
9	587	100.0	111	6	ABB99340 Amino aci
10	587	100.0	111	6	ABU84927 Human sec
11	587	100.0	111	6	ABU61125 Human PRO
12	587	100.0	111	6	ABU80394 Human sec
13	587	100.0	111	6	ADA24909 Novel hum
14	587	100.0	111	6	ABO19696 Novel hum
15	587	100.0	111	6	ADA12570 Human sec
16	587	100.0	111	6	ABO19587 Novel hum
17	587	100.0	111	7	ABU73876 Human PRO
18	587	100.0	111	7	ABU76592 Human PRO
19	587	100.0	111	7	ADC44018 Human sec
20	587	100.0	111	7	ADC61778 Human sec
21	587	100.0	111	7	ADC63742 Human sec
22	587	100.0	111	7	ADC66842 Human sec
23	587	100.0	111	7	ADC68966 Human sec
24	587	100.0	111	7	ADC63026 Human sec
25	587	100.0	111	7	ADC68091 Human sec

ALIGNMENTS

RESULT 1

AAY41739

ID AAY41739 standard; protein; 111 AA.

XX

AC AAY41739;

XX

DT 07-DEC-1999 (first entry)

XX

DE Human PRO273 protein sequence.

XX

KW Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
probe; blood coagulation disorder; cancer; cellular adhesion disorder;
secreted protein; transmembrane protein.

XX

OS Homo sapiens.

XX

PN WO9946281-A2.

XX

PD 16-SEP-1999.

XX

PF 08-MAR-1999; 99WO-US005028.

XX

PR 10-MAR-1998; 98US-0077450P.

PR

PR 11-MAR-1998; 98US-0077632P.

PR

PR 11-MAR-1998; 98US-0077641P.

PR

PR 11-MAR-1998; 98US-0077649P.

PR

PR 12-MAR-1998; 98US-0077791P.

PR

PR 13-MAR-1998; 98US-0078004P.

PR

PR 17-MAR-1998; 98US-00040220.

PR

PR 20-MAR-1998; 98US-0078886P.

PR

PR 20-MAR-1998; 98US-0078910P.

PR

PR 20-MAR-1998; 98US-0078936P.

PR

PR 20-MAR-1998; 98US-0078939P.

PR

PR 25-MAR-1998; 98US-0079234P.

PR

PR 26-MAR-1998; 98US-0079565P.

PR

PR 27-MAR-1998; 98US-0079663P.

PR

PR 27-MAR-1998; 98US-0079664P.

PR

PR 27-MAR-1998; 98US-0079689P.

PR

PR 27-MAR-1998; 98US-0079728P.

PR

PR 30-MAR-1998; 98US-0079786P.

PR

PR 30-MAR-1998; 98US-0079820P.

PR

PR 31-MAR-1998; 98US-0080105P.

PR

PR 31-MAR-1998; 98US-0080107P.

PR

PR 31-MAR-1998; 98US-0080165P.

PR

PR 31-MAR-1998; 98US-0080194P.

PR

PR 01-APR-1998; 98US-0080327P.

PR

PR 01-APR-1998; 98US-0080328P.

PR

PR 01-APR-1998; 98US-0080328P.

PR

Best Local Similarity 100.0%; Pred. No. 8.9e-60; Mismatches 0; Indels 0; Gaps 0; Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPPVSMRLAAALLLLALLLALYARVDGSKCKSKGPKIRYSDVKLEMKPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLALLLALYARVDGSKCKSKGPKIRYSDVKLEMKPKY 60

QY 61 PHCEKXWVITTKSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKXWVITTKSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 3
AAB33423
ID AAB33423 standard; protein; 111 AA.
AC AAB33423;
XX
DT 29-JAN-2001 (first entry)
XX
DE Human PRO273 protein UNQ240 SEQ ID NO:46.
XX
KW Human; immune related disease; diagnosis; antinflammatory; cardiant;
KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
KW antianemic; hepatotropic; virucide; antiporiatic; antiallergic;
KW antidiabetic; systemic lupus erythematosus; rheumatoid arthritis;
KW osteoarthritis; spondyloarthritis; systemic sclerosis; sarcoidosis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
KW autoimmune thrombocytopenia; immune-mediated renal disease;
KW demyelinating disease; hepatobiliary disease; Whipple's disease;
KW inflammatory bowel disease; gluten-sensitive enteropathy;
KW autoimmune disease; immune-mediated skin disease; allergic disease;
KW immunological disease; transplantation associated disease;
KW graft rejection; graft-versus-host-disease.
XX
OS Homo sapiens.
XX
PN WO200053758-A2.
XX
XX 14-SEP-2000.
XX
XX 02-MAR-2000; 2000WO-US005841.
XX
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99US-0123618P.
PR 12-MAR-1999; 99US-0123957P.
PR 23-MAR-1999; 99US-0125775P.
PR 12-APR-1999; 99US-0128849P.
PR 20-APR-1999; 99WO-US008615.
PR 28-APR-1999; 99US-0134445P.
PR 04-MAY-1999; 99US-0132371P.
PR 14-MAY-1999; 99US-0134287P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-OCT-1999; 99US-0162506P.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.

02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030999.
30-DEC-1999; 99WO-US031274.
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000277.
06-JAN-2000; 2000WO-US000376.
11-FEB-2000; 2000WO-US000365.
18-FEB-2000; 2000WO-US004341.
18-FEB-2000; 2000WO-US004342.
22-FEB-2000; 2000WO-US004414.
(GETH) GENENTECH INC.
PA
XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Stewart TA, Tamas D, Watanabe CK, Wood WI, Yan M;
XX
DR WPI; 2000-572271/S3.
DR N-PSDB; AAC58588.
XX
PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX
PS Claim 33; Fig 20; 309pp; English.
XX
CC The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthritis,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention
XX
SQ Sequence 111 AA;

Query Match 100.0%; Score 587; DB 3; Length 111;
Best Local Similarity 100.0%; Pred. No. 8.9e-60; Mismatches 0; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 PHCEKXWVITTKSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKXWVITTKSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 4
AAB44295
ID AAB44295 standard; protein; 111 AA.
XX
AC AAB44295;
XX
DT 08-FEB-2001 (first entry)
XX
DE Human PRO273 (UNQ240) protein sequence SEQ ID NO:370.
XX
KW Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;

Db 61 PHCEKMWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111

RESULT 6

ABG70798

ID ABG70798 standard; protein; 111 AA.

XX AC

XX ABG70798;

XX DT 16-DEC-2002 (first entry)

XX DE

XX Human Bolekine protein.

XX KW Human; Bolekine; leukocyte; immune response; chemokine;

XX KW leukocyte trafficking; adhesion; endothelial cell; chemoattractant;

XX KW proliferation; activation; systemic lupus erythematosus; arthritis;

XX KW angiogenesis; systemic sclerosis; autoimmune haemolytic anaemia;

XX KW thyroditis; diabetes mellitus; renal disease; demyelinating disease;

XX KW nervous system; polynuropathy; hepatitis; primary biliary cirrhosis;

XX KW inflammatory bowel disease; autoimmune skin disease; alopecia; psoriasis;

XX KW allergy; asthma; atopic dermatitis; food hypersensitivity; lung disease;

XX KW stroke; encephalitis; multiple sclerosis; agonist; antagonist;

XX KW T-lymphocyte; mononuclear cell; eosinophil; polymorphonuclear neutrophil;

XX KW PMN; pluripotent cell; neuronal cell; MAP2; transgenic; therapeutic;

XX KW Gene therapy; tumour; neovascularisation.

XX OS Homo sapiens.

XX FH

XX Key

XX Peptide

XX Location/Qualifiers

XX 1..34

XX /label= Signal_peptide

XX Protein

XX 35..111

XX /label= Mature_Bolekine

XX Modified-site

XX 80..85

XX /note= "N-myristoylation site"

XX FT

XX US2002119118-A1.

XX PN

XX 29-AUG-2002.

XX PD

XX 22-MAR-2001; 2001US-00816920.

XX PF

XX 03-NOV-1997; 97US-0064249P.

XX PR 27-APR-1998; 98US-0083336P.

XX PR 08-MAR-1999; 99WO-US005028.

XX PR 18-FEB-2000; 2000WO-US004341.

XX PR 02-MAR-2000; 2000WO-US005841.

XX PA (GETH) GENENTECH INC.

XX FI

XX Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;

XX DR N-PSDB; ABS55212.

XX DR

XX WPI; 2002-740172/80.

XX DR

XX Novel Bolekine polypeptide useful for identifying agonist and antagonist

XX FT of the polypeptide, and for treating immune related disorder, e.g.

XX FT systemic lupus erythematosus and rheumatoid arthritis in a mammal.

XX PS

XX Claim 15; Fig 2; 63pp; English.

XX PS

XX The invention discloses a human Bolekine polypeptide, or its fragment.

XX CC Leukocytes play a important role in the immune response and the processes

XX CC by which these cells move to their appropriate destination is critical.

XX CC Chemokines are involved in leukocyte trafficking by mediating the

XX CC expression of adhesion molecules on endothelial cells, producing

XX CC chemoattractants, stimulate proliferation and regulate activation of

XX CC specific cell types. The polynucleotide, polypeptide and antibodies

XX CC raised against the polypeptide are useful for treating an immune related

XX CC disorder in a mammal, such as systemic lupus erythematosus, arthritis,

XX CC angiogenesis, systemic sclerosis, autoimmune haemolytic anaemia,

XX CC thyroditis, diabetes mellitus, renal disease, demyelinating disease of

XX CC the central or peripheral nervous system, polynuropathy, hepatitis,

CC primary biliary cirrhosis, inflammatory bowel disease, an autoimmune or

CC immune-mediated skin disease, alopecia, psoriasis, allergic disease,

CC asthma, atopic dermatitis, food hypersensitivity, immunologic disease of

CC the lung, stroke, encephalitis and multiple sclerosis. The polypeptides

CC and polynucleotides are also useful for identifying a compound (agonist

CC or antagonist) that inhibits the expression of activity of Bolekine, for

CC diagnosing an immune related disease in a mammal, for modulating the

CC proliferation of T-lymphocytes for enhancing the infiltration of

CC inflammatory cells (such as mononuclear cells, eosinophils and

CC polymorphonuclear neutrophils (PMNs)) into a tissue of a mammal and for

CC inducing the differentiation of pluripotent cells into neuronal cells in

CC a mammal, where the cells differentiate to a state such that neuronal

CC markers (e.g. MAP2) are detected. The polynucleotides are also useful for

CC generating transgenic or knock out animals which can be used in the

CC development and screening of therapeutically useful agents, in gene

CC therapy, chromosome markers and diagnostically for tissue typing and for

CC treating tumours by inhibiting the neovascularisation. The sequence

XX presented is the human Bolekine protein

XX SQ

Sequence 111 AA;

Query Match 100.0%; Score 587; DB 5; Length 111;

Best Local Similarity 100.0%; Pred. No. 8.9e-60;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIKIRYSDVKLEMKPKY 60

Ds 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIKIRYSDVKLEMKPKY 60

Qy 61 PHCEKMWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111

Ds 61 PHCEKMWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111

RESULT 7

ABO25241

ID ABO25241 standard; protein; 111 AA.

XX AC

XX ABO25241;

XX DT 09-SEP-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO273.

XX KW Human; secreted and transmembrane protein; PRO; virucide; gene therapy;

XX KW cell death; growth induction cascade; blood coagulation cascade;

XX KW viral infection.

XX OS Homo sapiens.

XX PN

XX US2003050239-A1.

XX PD 13-MAR-2003.

XX PF 15-OCT-2001; 2001US-00978191.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 03-NOV-1997; 97US-0064249P.

XX PR 13-NOV-1997; 97US-0065311P.

XX PR 21-NOV-1997; 97US-0066364P.

XX PR 10-MAR-1998; 98US-0077450P.

XX PR 11-MAR-1998; 98US-0077632P.

XX PR 11-MAR-1998; 98US-0077641P.

XX PR 11-MAR-1998; 98US-0077649P.

XX PR 12-MAR-1998; 98US-0077791P.

XX PR 13-MAR-1998; 98US-0078004P.

XX PR 17-MAR-1998; 98US-00040220.

XX PR 20-MAR-1998; 98US-0078886P.

XX PR 20-MAR-1998; 98US-0078910P.

XX PR 20-MAR-1998; 98US-0078936P.

XX PR 20-MAR-1998; 98US-0078939P.

XX PR 25-MAR-1998; 98US-0079294P.

XX PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P. PR 28-MAY-1998; 98US-0087208P.
PR 27-MAR-1998; 98US-0079664P. PR 26-JUN-1998; 98US-00105413.
PR 27-MAR-1998; 98US-0079689P. PR 26-JUN-1998; 98US-0090863P.
PR 27-MAR-1998; 98US-0079728P. PR 26-JUN-1998; 98US-0091010P.
PR 27-MAR-1998; 98US-0079786P. PR 01-JUL-1998; 98US-0091359P.
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PR 30-MAR-1998; 98US-0079920P. PR 11-SEP-1998; 98US-0100038P.
PR 31-MAR-1998; 98US-0080105P. PR 07-OCT-1998; 98US-00168978.
PR 31-MAR-1998; 98US-0080105P. PR 07-OCT-1998; 98US-00211141.
PR 31-MAR-1998; 98US-0080107P. PR 02-NOV-1998; 98US-00184216.
PR 31-MAR-1998; 98US-0080165P. PR 06-NOV-1998; 98US-00187368.
PR 01-APR-1998; 98US-0080194P. PR 20-NOV-1998; 98US-0109304P.
PR 01-APR-1998; 98US-0080327P. PR 20-NOV-1998; 98US-0024855.
PR 01-APR-1998; 98US-0080328P. PR 07-DEC-1998; 98US-00202054.
PR 01-APR-1998; 98US-0080333P. PR 22-DEC-1998; 98US-00218517.
PR 01-APR-1998; 98US-0080333P. PR 22-DEC-1998; 98US-0113296P.
PR 08-APR-1998; 98US-0081049P. PR 23-DEC-1998; 98US-0113621P.
PR 08-APR-1998; 98US-0081070P. PR 05-JAN-1999; 99US-0000106.
PR 09-APR-1998; 98US-00811071P. PR 05-JAN-1999; 99US-00254465.
PR 09-APR-1998; 98US-0081195P. PR 08-MAR-1999; 99US-00005028.
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PR 07-MAY-1998; 98US-0084627P. PR 06-JAN-2000; 2000US-0000376.
PR 07-MAY-1998; 98US-0084637P. PR 11-FEB-2000; 2000US-00003565.
PR 07-MAY-1998; 98US-0084639P. PR 18-FEB-2000; 2000US-00004341.
PR 07-MAY-1998; 98US-0084640P. PR 24-FEB-2000; 2000US-00005004.
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PR 15-MAY-1998; 98US-0085573P. PR 02-JUN-2000; 2000US-00015264.
PR 15-MAY-1998; 98US-0085579P. PR 28-JUL-2000; 2000US-00020710.
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PR 15-MAY-1998; 98US-0085697P. PR 27-NOV-2000; 2000US-00072379.
PR 15-MAY-1998; 98US-0085700P. PR 01-DEC-2000; 2000US-00072678.
PR 15-MAY-1998; 98US-0085700P. PR 20-DEC-2000; 2000US-00074759.
PR 18-MAY-1998; 98US-0086023P. PR 20-DEC-2000; 2000US-00074956.
PR 22-MAY-1998; 98US-0086392P. PR 28-FEB-2001; 2001US-00006520.
PR 22-MAY-1998; 98US-0086411P. PR 22-MAR-2001; 2001US-00016744.
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PR 22-MAY-1998; 98US-0086430P. PR 22-MAR-2001; 2001US-00016920.
PR 28-MAY-1998; 98US-0087098P. PR 22-MAR-2001; 2001US-00016920.
PR 28-MAY-1998; 98US-0087106P. PR 22-MAR-2001; 2001US-00016920.


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PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021056.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918595.
XX
PA (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
Query Match 100.0%; Score 587; DB 6; Length 111;
Best Local Similarity 100.0%; Pred. No. 8.9e-60;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLPFRAPPVSMRLAAALLLLALLALYARVDGSKCKSGKPKIRYSDVKKLEMKPKY 60
DB 1 MSLPFRAPPVSMRLAAALLLLALLALYARVDGSKCKSGKPKIRYSDVKKLEMKPKY 60
QY 61 PHCEKMWIIITKSVRYRGOEHCHLHPKLOSTKRFIKWYANNEKRVYEE 111
DB 61 PHCEKMWIIITKSVRYRGOEHCHLHPKLOSTKRFIKWYANNEKRVYEE 111
RESULT 8
ABU72247
ID ABU72247 standard; protein; 111 AA.
XX
AC ABU72247;
XX
DT 16-JUN-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO273.
XX
KW Human; secreted and transmembrane protein; PRO; antiinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-Hiv; cytostatic;
KW antididiabetic; gene therapy; inflammatory disease; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
KW tissue typing.
XX
XX Homo sapiens.
XX
XX US2002192706-A1.
XX
PD 19-DEC-2002.
XX
PF 24-OCT-2001; 2001US-00999832.
XX
PR 17-OCT-1997; 97US-0062250P.
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PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
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PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
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PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
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PR 31-MAR-1998; 98US-0080107P.
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PR 01-APR-1998; 98US-0080327P.
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PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
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PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98WO-US024855.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US0301243.
PR 05-JAN-2000; 99WO-US031274.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US003376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US008520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
XX

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PA (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
 PI Ferrari N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 FI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kijavini LJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-328860/31.
 DR N-PSDB; ACA63773.
 XX
 XX New secreted and transmembrane nucleic acids and polypeptides, designated
 PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
 PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
 PT cancer.
 XX
 XX Claim 12; Fig 149; 453pp; English.
 PS
 XX The invention describes an isolated nucleic acid (I) comprising, or which
 CC is at least 80 % sequence identity to, or the full-length coding sequence
 CC of, any of 118 300-2100 nucleotide sequences, which encodes its
 CC corresponding PRO polypeptide selected from 118 100-700 amino acid
 CC sequences, all given in the specification. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
 CC acids are useful as hybridization probes in chromosome and gene mapping,
 CC and in generating antisense RNA or DNA. The polypeptides are useful as
 CC pharmaceuticals, diagnostics, biosensors or bioeffectors. Both are useful
 CC in tissue typing. This is the amino acid sequence of a novel human
 CC secreted and transmembrane PRO polypeptide
 XX
 XX Sequence 111 AA;
 SQ
 Query Match 100.0%; Score 587; DB 6; Length 111;
 Best Local Similarity 100.0%; Pred. No. 8.9e-60;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MSLLPRAPPVSMRLAAALLLLALLYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
 Db 1 MSLLPRAPPVSMRLAAALLLLALLYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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 Db 61 PCEERKMWIITKSVSRVYRGQEHCLHPKLOSTKRFIKWYNANNEKRYVEE 111
 RESULT 9
 ID ABB99340 standard; protein; 111 AA.
 XX
 XX ABB99340;
 AC
 XX 29-JAN-2003 (first entry)
 XX
 DE Amino acid sequence of Human Bolekine.
 XX
 KW Human; Bolekine; T-lymphocyte proliferation; immune related disorder;
 KW systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
 KW juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
 KW idiopathic inflammatory myopathy; Sjogren's syndrome;
 KW systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia;
 KW autoimmune thrombocytopenia; thyroditis; diabetes mellitus;
 KW immune-mediated renal disease; demyelinating disease;
 KW idiopathic demyelinating polyneuropathy; Guillen-Barre syndrome;
 KW chronic inflammatory demyelinating polyneuropathy; hepatobiliary disease;
 KW hepatitis; primary biliary cirrhosis; granulomatous hepatitis;
 KW sclerosing cholangitis; inflammatory bowel disease;
 KW gluten-sensitive enteropathy; Whipple's disease; skin disease;
 KW erythema multiforme; contact dermatitis; psoriasis; allergy; asthma;
 KW allergic rhinitis; atopic dermatitis; food hypersensitivity; urticaria;
 KW eosinophilic pneumonia; idiopathic pulmonary fibrosis;
 KW hypersensitivity pneumonitis; graft rejection; graft-versus-host disease;

gene therapy.
 XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FT Peptide 1..34
 FT /note= "signal peptide"
 FT Modified-site 80..85
 FT /note= "N-myristoylation site"
 XX
 XX WO200277028-A1.
 XX
 XX 03-OCT-2002.
 PD
 XX 22-MAR-2001; 2001WO-US009552.
 XX
 XX 22-MAR-2001; 2001WO-US009552.
 XX
 XX (GETH) GENENTECH INC.
 PA
 XX Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;
 XX WPI; 2003-018887/01.
 XX N-PSDB; ABV72423.
 XX
 XX New Bolekine polypeptides and encoding nucleic acids, useful for treating
 PT an immune-related disorder such as systemic lupus erythematosus, atopic
 PT rheumatoid arthritis, psoriasis, asthma, allergic rhinitis and atopic
 PT dermatitis.
 XX
 XX Claim 15; Fig 2; 96pp; English.
 PS
 XX The present sequence represents a human Bolekine polypeptide. Bolekine
 CC polypeptides are active stimulators of the proliferation of T-
 CC lymphocytes. Bolekine polypeptides and polynucleotides are useful for
 CC treating an immune related disorder e.g. systemic lupus erythematosus,
 CC rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a
 CC spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory
 CC myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,
 CC autoimmune haemolytic anaemia, autoimmune thrombocytopenia,
 CC thyroditis, diabetes mellitus, immune-mediated renal disease, a
 CC demyelinating disease of the central or peripheral nervous system, a
 CC idiopathic demyelinating polyneuropathy, Guillen-Barre syndrome, a
 CC chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
 CC disease, infectious or autoimmune chronic active hepatitis, primary
 CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
 CC inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
 CC disease, an autoimmune or immune-mediated skin disease, a bullous skin
 CC disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
 CC disease, asthma, allergic rhinitis, atopic dermatitis, food
 CC hypersensitivity, urticaria, an immunologic disease of the lung,
 CC eosinophilic pneumonias, idiopathic pulmonary fibrosis, hypersensitivity
 CC pneumonitis, a transplantation associated disease, graft rejection or
 CC graft-versus-host disease. The Bolekine polypeptides and encoding nucleic
 CC acid molecules can also be used as hybridization probes, for generation
 CC of transgenic animal, gene therapy, as molecular weight markers,
 CC chromosome identification and tissue typing
 XX
 XX Sequence 111 AA;
 SQ
 Query Match 100.0%; Score 587; DB 6; Length 111;
 Best Local Similarity 100.0%; Pred. No. 8.9e-60;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MSLLPRAPPVSMRLAAALLLLALLYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
 Db 1 MSLLPRAPPVSMRLAAALLLLALLYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
 QY 61 PCEERKMWIITKSVSRVYRGQEHCLHPKLOSTKRFIKWYNANNEKRYVEE 111
 Db 61 PCEERKMWIITKSVSRVYRGQEHCLHPKLOSTKRFIKWYNANNEKRYVEE 111

RESULT 10

ABU84927
ID ABU84927 standard; protein; 111 AA.

XX AC ABU84927;

XX DT 12-AUG-2003 (first entry)

XX DE Human secreted and transmembrane PRO polypeptide #3.

XX KW Human; thrombolytic agent; interferon; interleukin; cytokine;
KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;
KW apoptosis related condition; AIDS; amyotrophic lateral sclerosis;
KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;
KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;
KW hypertension; myocardial ischemia; kidney disease; carcinogenesis;
KW glomerulonephritis; lung disease; pulmonary hypertension; preclampsia;
KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
KW inflammatory bowel disease; reproductive disorder; premature labour.

XX OS Homo sapiens.

XX US2002177553-A1.

XX PN 28-NOV-2002.

XX PD 15-OCT-2001; 2001US-00978192.

XX PF 17-OCT-1997; 97US-0062250P.

XX PR 03-NOV-1997; 97US-0064249P.

XX PR 13-NOV-1997; 97US-0065311P.

XX PR 21-NOV-1997; 97US-0066364P.

XX PR 10-MAR-1998; 98US-0077450P.

XX PR 11-MAR-1998; 98US-0077632P.

XX PR 11-MAR-1998; 98US-0077641P.

XX PR 11-MAR-1998; 98US-0077649P.

XX PR 13-MAR-1998; 98US-0077791P.

XX PR 13-MAR-1998; 98US-0078004P.

XX PR 20-MAR-1998; 98US-008040220.

XX PR 20-MAR-1998; 98US-0078886P.

XX PR 20-MAR-1998; 98US-0078910P.

XX PR 20-MAR-1998; 98US-0078938P.

XX PR 20-MAR-1998; 98US-0078939P.

XX PR 25-MAR-1998; 98US-0079294P.

XX PR 27-MAR-1998; 98US-0079656P.

XX PR 27-MAR-1998; 98US-0079663P.

XX PR 27-MAR-1998; 98US-0079689P.

XX PR 27-MAR-1998; 98US-0079728P.

XX PR 27-MAR-1998; 98US-0079788P.

XX PR 30-MAR-1998; 98US-0079920P.

XX PR 30-MAR-1998; 98US-0079923P.

XX PR 26-JUN-1998; 98US-00105413.

XX PR 07-OCT-1998; 98US-00168978.

XX PR 07-OCT-1998; 98US-0021141.

XX PR 02-NOV-1998; 98US-00184216.

XX PR 06-NOV-1998; 98US-00187368.

XX PR 20-NOV-1998; 98US-0024855.

XX PR 07-DEC-1998; 98US-00202054.

XX PR 05-JAN-1999; 98US-00218517.

XX PR 05-MAR-1999; 99US-00254465.

XX PR 08-MAR-1999; 99US-00505028.

XX PR 10-MAR-1999; 99US-00265686.

XX PR 10-MAR-1999; 99US-00505190.

XX PR 12-MAR-1999; 99US-00267213.

XX PR 12-APR-1999; 99US-00284291.

XX PR 14-MAY-1999; 99US-00311832.

XX PR 14-MAY-1999; 99US-00107733.

XX PR 02-JUN-1999; 99US-0012252.

XX PR 25-AUG-1999; 99US-00380137.

XX PR 25-AUG-1999; 99US-00380138.

XX PR 25-AUG-1999; 99US-00380142.

PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Shelton DL;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Williams PM, Wood WI;
PI Stewart TA, Tumas D, Williams PM, Wood WI;

XX WPI; 2003-328499/31.

XX N-PSDB; ACA71937.

XX New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as
XX pharmaceuticals, diagnostics, biosensors and bioreactors, for identifying
XX modulators of receptor-ligand interactions.

XX Claim 12; SEQ ID NO 370; 55pp; English.

XX The invention relates to an isolated secreted and transmembrane
XX polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful
XX in PRO polypeptide detection methods. The PRO polypeptide is useful for
XX linking a bioactive molecule to a cell. The PRO polypeptide or an
XX antibody against it is useful for modulating a biological activity of a
XX cell. The PRO polypeptide is useful in industrial applications including
XX pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO
XX polypeptide is also useful as a thrombolytic agent, interferon,
XX interleukin, erythropoietin, colony stimulating factor and other
XX cytokines. The PRO polypeptide is useful for treating disease such as
XX cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,
XX amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,

atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,
 Parkinson's disease; cardiovascular disease e.g. hypertension and
 myocardial ischaemia; kidney disease e.g. renal failure and
 glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial
 asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory
 bowel disease; reproductive disorders e.g. premature labour and
 preclampsia; carcinogenesis. The present sequence represents the amino
 acid sequence of a PRO polypeptide of the invention. Note: The sequence
 data for this patent did not form part of the printed specification but
 was obtained in electronic format directly from USPTO at
 seqdata.uspto.gov/sequence.html?DocID=20020177553

CC Sequence 111 AA;

Query Match 100.0%; Score 587; DB 6; Length 111;
 Best Local Similarity 100.0%; Pred. No. 8.9e-60;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPVSVRLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
 DB 1 MSLLPRAPVSVRLAAALLLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
 QY 61 PHCEKQVITTSVSRVQGECHLHPKQSTKRTKYNANNEKRRVYEE 111
 DB 61 PHCEKQVITTSVSRVQGECHLHPKQSTKRTKYNANNEKRRVYEE 111

RESULT 11

ID ABU61125 standard; protein; 111 AA.

AC ABU61125;

DT 08-MAY-2003 (first entry)

DE Human PRO273 polypeptide.

KW Human; PRO polypeptide; secreted and transmembrane protein;
 immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
 cardiac insufficiency; nervous system disorder; kidney disorder;
 bone disorder; cartilage disorder; arthritis; tumour; wound healing;
 genetic disorder; cytostatic; antidiabetic; antiinflammatory;
 antiarthritic; anti-tumour; vulnery; antianaemic; dermatological;
 cardiant.

OS Homo sapiens.

XX US2002169284-A1.

PD 14-NOV-2002.

PF 16-OCT-2001; 2001US-00978697.

XX 26-MAY-1981; 81US-00267213.

PR 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064449P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 11-MAR-1998; 98US-0077791P.

PR 12-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040220.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079249P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 26-JUN-1998; 98US-00105413.
 PR 07-OCT-1998; 98US-00168978.
 PR 07-OCT-1998; 98US-00211141.
 PR 02-NOV-1998; 98US-00184216.
 PR 06-NOV-1998; 98US-00187368.
 PR 20-NOV-1998; 98US-0024855.
 PR 07-DEC-1998; 98US-00202054.
 PR 22-DEC-1998; 98US-00218517.
 PR 05-JAN-1999; 99US-00000106.
 PR 05-JAN-1999; 99US-00254465.
 PR 08-MAR-1999; 99US-00050208.
 PR 10-MAR-1999; 99US-00265686.
 PR 10-MAR-1999; 99US-0005190.
 PR 12-APR-1999; 99US-00284291.
 PR 14-MAY-1999; 99US-00311832.
 PR 14-MAY-1999; 99US-00311832.
 PR 02-JUN-1999; 99US-0012252.
 PR 25-AUG-1999; 99US-00380137.
 PR 25-AUG-1999; 99US-00380138.
 PR 30-NOV-1999; 99US-00380142.
 PR 02-DEC-1999; 99US-0028313.
 PR 02-DEC-1999; 99US-0028551.
 PR 16-DEC-1999; 99US-0028565.
 PR 30-DEC-1999; 99US-0030095.
 PR 30-DEC-1999; 99US-00311243.
 PR 05-JAN-2000; 99US-00311274.
 PR 06-JAN-2000; 2000US-00000219.
 PR 06-JAN-2000; 2000US-00000277.
 PR 11-FEB-2000; 2000US-0000376.
 PR 18-FEB-2000; 2000US-0003565.
 PR 24-FEB-2000; 2000US-0004341.
 PR 02-MAR-2000; 2000US-0005004.
 PR 21-MAR-2000; 2000US-0005841.
 PR 21-MAR-2000; 2000US-0007532.
 PR 30-MAR-2000; 2000US-0008439.
 PR 17-MAY-2000; 2000US-0013705.
 PR 22-MAY-2000; 2000US-0014042.
 PR 30-MAY-2000; 2000US-0014941.
 PR 02-JUN-2000; 2000US-0015264.
 PR 24-JUL-2000; 2000US-0020710.
 PR 08-NOV-2000; 2000US-0023328.
 PR 27-NOV-2000; 2000US-00709238.
 PR 01-DEC-2000; 2000US-00723749.
 PR 20-DEC-2000; 2000US-0032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 28-FEB-2001; 2001US-0034956.
 PR 22-MAR-2001; 2001US-0006520.
 PR 22-MAR-2001; 2001US-00816744.
 PR 22-MAR-2001; 2001US-00816920.
 PR 10-MAY-2001; 2001US-00854208.
 PR 25-MAY-2001; 2001US-00854280.
 PR 01-JUN-2001; 2001US-00871092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 05-JUN-2001; 2001US-0017800.
 PR 14-JUN-2001; 2001US-00874503.
 PR 19-JUN-2001; 2001US-00882636.
 PR 20-JUN-2001; 2001US-00886342.
 PR 29-JUL-2001; 2001US-0019692.
 PR 09-JUL-2001; 2001US-0021066.
 PR 30-JUL-2001; 2001US-0021735.
 PR 30-JUL-2001; 2001US-00918585.

(GETH) GENENTECH INC.

PA Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton D;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 DR WPI; 2003-288163/28.
 DR N-PSDB; ABX92577.

XX Novel secreted and transmembrane polypeptides and polynucleotides
 PT encoding them useful for treating cancer, kidney diseases, bone,
 PT cartilage disorders and immune deficiencies.

XX Claim 12; Fig 149; 459pp; English.

CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO
 CC polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for linking
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating
 CC biological activities of cells expressing PRO polypeptides, and for
 CC identifying agonists or antagonists. The bioactive molecule may be a
 CC toxin, radiolabel or antibody, and causes apoptosis or death of the cell.
 CC The PRO polypeptides are useful for treating immune disorders, diabetes
 CC or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system
 CC disorders, kidney disorders, bone and cartilage disorders or arthritis,
 CC tumours, and wound healing. The polynucleotide sequences encoding PRO
 CC polypeptides are useful as hybridisation probes, in chromosome and gene
 CC mapping, in the generation of antisense RNA and DNA, in the preparation
 CC of PRO polypeptides, for generating transgenic animals or knockout
 CC animals, for the genetic analysis of individuals with genetic disorders,
 CC and in gene therapy. ABU61071-ABU61164 represent the human PRO
 CC polypeptides of the invention. Note: The sequence data for this patent
 CC was obtained in electronic format directly from the USPTO web site at
 CC seqdata.uspto.gov/psipd/Entry.html

XX Sequence 111 AA;

Query Match 100.0%; Score 587; DB 6; Length 111;
 Best Local Similarity 100.0%; Pred. No. 8.9e-60;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPVSVRLAAALLLLALLLTARVDGSKCKSKPKIRYSDVKLEMKPKY 60
 DB 1 MSLLPRAPVSVRLAAALLLLALLLTARVDGSKCKSKPKIRYSDVKLEMKPKY 60
 QY 61 PHCEKRWIITKSVSRVYSGEHLHPKLOSTKRIKYNWNEKRRVYEE 111
 DB 61 PHCEKRWIITKSVSRVYSGEHLHPKLOSTKRIKYNWNEKRRVYEE 111

RESULT 12
 ABUS0394

ID ABUS0394 standard; protein; 111 AA.

AC ABUS0394;

XX 24-JUN-2003 (first entry)

DE Human secreted/transmembrane protein PRO273.

XX Human; secreted protein; transmembrane protein; PRO; malignancy; cancer;
 KW ovarian cancer; colorectal cancer; sarcoma; leukaemia; lymphoma;
 KW inflammatory disease; necrosis; atherosclerosis; infertility;
 KW premature aging; psoriasis; inflammatory disease; renal disease;
 KW arthritis; immune-mediated alopecia; stroke; encephalitis; hepatitis;
 KW multiple sclerosis; Gene therapy.

XX Homo sapiens.

XX US2003004102-A1.

XX 02-JAN-2003.

XX 15-OCT-2001; 2001US-00978189.

XX 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-0080422D.
 PR 20-MAR-1998; 98US-0078866P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079933P.
 PR 26-JUN-1998; 98US-00105413.
 PR 07-OCT-1998; 98US-0016897P.
 PR 07-OCT-1998; 98US-0021141.
 PR 02-NOV-1998; 98US-00184216.
 PR 06-NOV-1998; 98US-00187368.
 PR 20-NOV-1998; 98US-0024855.
 PR 07-DEC-1998; 98US-00202054.
 PR 22-DEC-1998; 98US-00218517.
 PR 05-JAN-1999; 99US-0000106.
 PR 05-MAR-1999; 99US-00254465.
 PR 08-MAR-1999; 99US-0005029.
 PR 10-MAR-1999; 99US-00265686.
 PR 10-MAR-1999; 99US-0005190.
 PR 12-MAR-1999; 99US-00267213.
 PR 12-APR-1999; 99US-00284291.
 PR 14-MAY-1999; 99US-00311832.
 PR 14-MAY-1999; 99US-00310733.
 PR 02-JUN-1999; 99US-00312282.
 PR 25-AUG-1999; 99US-00380137.
 PR 25-AUG-1999; 99US-00380138.
 PR 25-AUG-1999; 99US-00380142.
 PR 30-NOV-1999; 99US-00283113.
 PR 02-DEC-1999; 99US-0028551.
 PR 16-DEC-1999; 99US-0028565.
 PR 30-DEC-1999; 99US-0030095.
 PR 30-DEC-1999; 99US-0031243.
 PR 05-JAN-2000; 2000US-0000219.
 PR 06-JAN-2000; 2000US-0000277.
 PR 06-JAN-2000; 2000US-0000376.
 PR 11-FEB-2000; 2000US-0003565.
 PR 18-FEB-2000; 2000US-0004341.
 PR 24-FEB-2000; 2000US-0005004.
 PR 01-MAR-2000; 2000US-0005601.
 PR 02-MAR-2000; 2000US-0005841.
 PR 10-MAR-2000; 2000US-0006319.
 PR 21-MAR-2000; 2000US-0007532.
 PR 30-MAR-2000; 2000US-0008432.
 PR 17-MAY-2000; 2000US-0013705.
 PR 22-MAY-2000; 2000US-0014042.
 PR 30-MAY-2000; 2000US-0014941.
 PR 02-JUN-2000; 2000US-0015264.
 PR 28-JUL-2000; 2000US-0020710.
 PR 24-AUG-2000; 2000US-0023328.
 PR 08-NOV-2000; 2000US-00709238.
 PR 10-NOV-2000; 2000US-0030873.
 PR 27-NOV-2000; 2000US-00723749.
 PR 01-DEC-2000; 2000US-0032678.

PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034356.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 16-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 28-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Pooni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
XX WPI: 2003-341189/32.
XX N-PSDB; ACA66318.
XX
XX New genes and secreted and transmembrane polypeptides (e.g. PRO337 or
PT PRO159), useful for treating or diagnosing e.g. cancers.
PT atherosclerosis, infertility, stroke, encephalitis, hepatitis or multiple
PT sclerosis in mammals.
XX
XX Claim 12; Fig 149; 460pp; English.
XX
XX The invention relates to a new isolated nucleic acid molecule comprising a
CC sequence with at least 80% identity to: (a) a nucleotide encoding any of
CC 94 PRO polypeptides whose sequences are fully defined in the
CC specification; or (b) any of 94 nucleotide sequences fully defined in the
CC specification; or (c) the full length coding sequence of any of these 94
CC nucleotide sequences. Also included are an isolated PRO polypeptide
CC scoring at least 80% positives when compared to any of the PRO
CC polypeptide sequences cited above (or an isolated PRO polypeptide having
CC at least 80% amino acid sequence identity to: (a) an amino acid sequence
CC encoded by the nucleotide deposited with ATCC numbers listed in the
CC specification; (b) the PRO polypeptide, lacking its associated signal
CC peptide; or (c) an extracellular domain of the PRO polypeptide, with or
CC lacking its associated signal peptide), a vector comprising the nucleic
CC acid molecule, a host cell comprising the vector (and producing a PRO
CC polypeptide), a chimeric molecule comprising the PRO polypeptide fused
CC to a heterologous amino acid sequence and an anti-PRO antibody. The PRO
CC polypeptides or polynucleotides are useful as pharmaceuticals,
CC diagnostics, biosensors or bioreactors. These are particularly useful for
CC detecting or treating e.g. malignancies or cancers (e.g. ovarian cancer,
CC colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease,
CC necrosis, atherosclerosis, infertility, premature aging, psoriasis,
CC inflammatory disease, renal disease, arthritis, immune-mediated alopecia,
CC stroke, encephalitis, hepatitis, or multiple sclerosis in mammals. The
CC PRO polypeptides are useful in drug screening, particularly as targets
CC for therapeutic intervention in these diseases, and in the diagnostic
CC determination of the presence of these diseases. The PRO polypeptides are
CC also useful as molecular weight markers or for chromosome
CC identification. The PRO genes are useful as hybridisation probes, or for
CC screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may
CC also be used in gene therapy, particularly for replacing a defective
CC gene. The present sequence represents a PRO polypeptide
XX
SQ Sequence 111 AA;

Query Match 100.0%; Score 587; DB 6; Length 111;
Best Local Similarity 100.0%; Pred. No. 8.9e-60;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLLPRAPPVSMRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKY 60
QY 61 PCEEEKVITTKSVSRVYRGQEHCHPKLQSTKRFIKWYNAWNEKRVYEE 111
DB 61 PCEEEKVITTKSVSRVYRGQEHCHPKLQSTKRFIKWYNAWNEKRVYEE 111
RESULT 13
ADA24909
ID ADA24909 standard; protein; 111 AA.
XX
AC ADA24909;
XX
DT 20-NOV-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO273.
XX
XX Human; secreted and transmembrane protein; PRO; tissue typing;
KW chromosome identification; vaccine; cancer; retinal disorder;
KW sports-related joint disorder; osteoarthritis; rheumatoid arthritis;
KW wound healing; obesity; diabetes; hearing loss; nervous system disorder;
KW cardiac insufficiency disorder; kidney disorder; nervous system disorder;
KW haemoglobin associated disorder.
XX
XX Homo sapiens.
XX
XX US2003050241-A1.
XX
XX 13-MAR-2003.
XX
XX 16-OCT-2001; 2001US-00978564.
XX
XX 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
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PR 20-MAR-1998; 98US-0078886P.
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PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079565P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
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PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
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PR 15-APR-1998; 98US-0081817P.
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PR 21-APR-1998; 98US-0082568P.
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PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131042P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUN-2000; 2000WO-US020710.
PR 24-IG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX
PA (GETH) GENENTECH INC.
XX
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Getritsen ME,
PI Goddard A, Godowski FJ, Grimaldi JC, Gurney AL, Hillan KJ,
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL,
PI Stewart TA, Tumas D, Williams PM, Wood WI,
XX
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DR WPI. 2003-521814/49.
DR N-PSDB; ADA24908.
XX
XX
PT New isolated PRO polypeptides for example extracellular, secreted and
PT membrane bound proteins, useful for modulating the biological activities
PT of cells and for treating, for example diabetes, cancer, rheumatoid
PT arthritis, and hearing loss.
XX
XX
PS Claim 12; Fig 149; 461pp; English.
XX
XX
CC The invention describes an isolated secreted and transmembrane (PRO)
CC polypeptide (i). PRO337 polypeptide is useful for detecting PRO4993
CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are
CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is
CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is
CC useful for linking a bioactive molecule to a cell expressing a PRO337
CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a
CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a
CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739

Query Match 100.0%; Score 587; DB 6; Length 111;

Best Local Similarity 100.0%; Pred. No. 8.9e-60;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 NSLLPRAPPVSMRLIAAALLLLLYTARYDVGSKCCKRGPKIRYSDVKKLEMPKY 60

Db 1 MSLLPRAPPVSMELLAAALLLALLLALLLALYARVDGSKCKSRGPKIRYSDVKLEMKPY 60
QY 61 PHCEKQVITTKSVSRGQCHLHPKLOSTKRFKIKWNNANKEKRVYEE 111
Db 61 PHCEKQVITTKSVSRGQCHLHPKLOSTKRFKIKWNNANKEKRVYEE 111

RESULT 14
ABO19696
ID ABO19696 standard; protein; 111 AA.
XX
AC ABO19696;
XX
DT 08-SEP-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO273.
XX
KW Human; secreted and transmembrane protein; PRO; cell death; neuropathy;
KW peripheral neuropathy; diabetic peripheral neuropathy;
KW AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
KW Refsum's disease; Abetalipoproteinemia; Tangier disease;
KW Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
KW Dejerine-Sottas syndrome; chromosome mapping; gene mapping; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003050240-A1.
XX
PD 13-MAR-2003.
XX
ZF 16-OCT-2001; 2001US-00978403.
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PR 17-OCT-1997; 97US-0062250P.
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PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
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PR 07-MAY-1998; 98US-0084598P.
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PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 12-MAR-1999; 99US-0123957P.
PR 19-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 28-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.

PR 07-JUL-1999; 99US-0142680P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 29-OCT-1999; 99US-0162506P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028585.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 99WO-US031274.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 11-FEB-2000; 2000WO-US000376.
 PR 18-FEB-2000; 2000WO-US003565.
 PR 24-FEB-2000; 2000WO-US004341.
 PR 02-MAR-2000; 2000WO-US005004.
 PR 10-MAR-2000; 2000WO-US005841.
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 PR 30-MAR-2000; 2000WO-US007532.
 PR 17-MAY-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US013705.
 PR 30-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US014941.
 PR 28-JUL-2000; 2000WO-US015264.
 PR 24-AUG-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US023328.
 PR 28-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US034956.
 PR 22-MAR-2001; 2001WO-US006520.
 PR 25-MAY-2001; 2001WO-US009552.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX (GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Fauch NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WL;
 DR WPI; 2003-503575/47.
 DR N-PSDB; ACD29919.
 XX
 PT Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers.
 XX
 PS Claim 12; Fig 149; 459pp; English.

XX The invention describes an isolated, secreted and transmembrane
 CC polypeptide, termed PRO polypeptide (I). (I) is useful for detecting
 CC PRO4993, PRO337, PRO1559, PRO725, PRO700 or PRO739 polypeptide, and for
 CC linking a bioactive molecule to a cell expressing the above polypeptides.
 CC The bioactive molecule is a toxin, radiolabel or an antibody and causes
 CC cell death. (I) is useful as therapeutic agent, in medical and industrial
 CC applications e.g. for treating neuropathy, especially peripheral
 CC neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy,
 CC Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinemia,
 CC Tangier disease, Krabbe's disease, Metachromatic leukodystrophy, Fabry's

Query Match 100.0%; Score 587; DB 6; Length 111;
 Best Local Similarity 100.0%; Pred. No. 8.9e-60;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLPRAPFVSMRLIAAALLLLALYARVDGSKCKSGKIRYSDVKLEMKPKY 60
 DB 1 MSLLPRAPFVSMRLIAAALLLLALYARVDGSKCKSGKIRYSDVKLEMKPKY 60

QY 61 PHCEKQVITTSVSRVYRQGEHCLHPKLOSTKRFKWTNANNEKRVYEE 111
 DB 61 PHCEKQVITTSVSRVYRQGEHCLHPKLOSTKRFKWTNANNEKRVYEE 111
 RESULT 15
 ADAL2570
 ID ADAL2570 standard; protein; 111 AA.
 XX ADAL2570;
 AC ADAL2570;
 DT 06-NOV-2003 (first entry)
 XX Human secreted/transmembrane polypeptide PRO273.
 XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
 KW infertility; birth defect; premature aging; AIDS; cancer;
 KW diabetic complication; tissue typing; human.
 XX Homo sapiens.
 XX US2003055216-A1.
 XX 20-MAR-2003.
 PF 17-OCT-2001; 2001US-00978824.
 XX 21-MAY-1996; 96US-0018049P.
 PR 17-OCT-1997; 97US-0062250P.
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 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
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 PR 08-APR-1998; 98US-0081070P.
 PR 08-APR-1998; 98US-0081071P.
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 PR 09-APR-1998; 98US-0081203P.
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 PR 15-APR-1998; 98US-0081819P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
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 PR 21-APR-1998; 98US-0082569P.
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PR	22-APR-1998;	98US-0082704P.	PR	14-MAY-1999;	98US-0031183Z.
PR	22-APR-1998;	98US-0082797P.	PR	14-MAY-1999;	98US-0134287P.
PR	22-APR-1998;	98US-0082804P.	PR	14-MAY-1999;	99WO-US010733.
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PR	27-APR-1998;	98US-0083336P.	PR	16-JUN-1999;	99US-0139557P.
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PR	29-APR-1998;	98US-0083495P.	PR	26-JUL-1999;	99US-0145698P.
PR	29-APR-1998;	98US-0083496P.	PR	28-JUL-1999;	99US-0146222P.
PR	29-APR-1998;	98US-0083499P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-APR-1998;	98US-0083500P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-APR-1998;	98US-0083545P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-APR-1998;	98US-0083554P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-APR-1998;	98US-0083558P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-APR-1998;	98US-0083559P.	PR	25-AUG-1999;	99US-0038013P.
PR	30-APR-1998;	98US-0083742P.	PR	25-AUG-1999;	99US-0038013P.
PR	05-MAY-1998;	98US-0083466P.	PR	25-AUG-1999;	99US-0038013P.
PR	06-MAY-1998;	98US-0084414P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084598P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084600P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084627P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084637P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084639P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-MAY-1998;	98US-0084640P.	PR	25-AUG-1999;	99US-0038013P.
PR	13-MAY-1998;	98US-0084643P.	PR	25-AUG-1999;	99US-0038013P.
PR	13-MAY-1998;	98US-0085323P.	PR	25-AUG-1999;	99US-0038013P.
PR	13-MAY-1998;	98US-0085338P.	PR	25-AUG-1999;	99US-0038013P.
PR	13-MAY-1998;	98US-0085339P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085573P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085579P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085580P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085582P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085689P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085697P.	PR	25-AUG-1999;	99US-0038013P.
PR	15-MAY-1998;	98US-0085700P.	PR	25-AUG-1999;	99US-0038013P.
PR	18-MAY-1998;	98US-0085704P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-MAY-1998;	98US-0086023P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-MAY-1998;	98US-0086332P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-MAY-1998;	98US-0086414P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-MAY-1998;	98US-0086430P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-MAY-1998;	98US-0086486P.	PR	25-AUG-1999;	99US-0038013P.
PR	28-MAY-1998;	98US-0087098P.	PR	25-AUG-1999;	99US-0038013P.
PR	28-MAY-1998;	98US-0087106P.	PR	25-AUG-1999;	99US-0038013P.
PR	28-MAY-1998;	98US-0087208P.	PR	25-AUG-1999;	99US-0038013P.
PR	26-JUN-1998;	98US-00105413.	PR	25-AUG-1999;	99US-0038013P.
PR	26-JUN-1998;	98US-0080863P.	PR	25-AUG-1999;	99US-0038013P.
PR	26-JUN-1998;	98US-0081010P.	PR	25-AUG-1999;	99US-0038013P.
PR	01-JUL-1998;	98US-0091359P.	PR	25-AUG-1999;	99US-0038013P.
PR	30-JUL-1998;	98US-0094651P.	PR	25-AUG-1999;	99US-0038013P.
PR	11-SEP-1998;	98US-0100038P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-OCT-1998;	98US-0016897P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-OCT-1998;	98US-0021141.	PR	25-AUG-1999;	99US-0038013P.
PR	02-NOV-1998;	98US-00184216.	PR	25-AUG-1999;	99US-0038013P.
PR	06-NOV-1998;	98US-0018736P.	PR	25-AUG-1999;	99US-0038013P.
PR	20-NOV-1998;	98US-0109334P.	PR	25-AUG-1999;	99US-0038013P.
PR	20-NOV-1998;	98US-0024855P.	PR	25-AUG-1999;	99US-0038013P.
PR	07-DEC-1998;	98US-0020205P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-DEC-1998;	98US-0021851P.	PR	25-AUG-1999;	99US-0038013P.
PR	22-DEC-1998;	98US-0113296P.	PR	25-AUG-1999;	99US-0038013P.
PR	23-DEC-1998;	98US-0113621P.	PR	25-AUG-1999;	99US-0038013P.
PR	05-JAN-1999;	98US-0000106P.	PR	25-AUG-1999;	99US-0038013P.
PR	05-MAR-1999;	98US-00254465.	PR	25-AUG-1999;	99US-0038013P.
PR	08-MAR-1999;	98US-00254528.	PR	25-AUG-1999;	99US-0038013P.
PR	10-MAR-1999;	98US-0026586P.	PR	25-AUG-1999;	99US-0038013P.
PR	12-MAR-1999;	98US-00267213.	PR	25-AUG-1999;	99US-0038013P.
PR	12-MAR-1999;	98US-0123957P.	PR	25-AUG-1999;	99US-0038013P.
PR	29-MAR-1999;	98US-0126773P.	PR	25-AUG-1999;	99US-0038013P.
PR	12-APR-1999;	98US-00284291.	PR	25-AUG-1999;	99US-0038013P.
PR	21-APR-1999;	98US-0130232P.	PR	25-AUG-1999;	99US-0038013P.
PR	26-APR-1999;	98US-0131022P.	PR	25-AUG-1999;	99US-0038013P.
PR	28-APR-1999;	98US-0131445P.	PR	25-AUG-1999;	99US-0038013P.

(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;
Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Query Match 100.0%; Score 587; DB 6; Length 111;
Best Local Similarity 100.0%; Pred. NO. 8.9e-60; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0;

QY 1 MSLLPRAPPVSMRLAALALLLALYARVDGSKCCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLLPRAPPVSMRLAALALLLALYARVDGSKCCKSRGPKIRYSDVKLEMPKY 60
QY 61 PCEERKWIITKVSRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111
DB 61 PCEERKWIITKVSRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

us-09-9/8-189-3/0.1ag

Mon Apr 26 15:46:52 2004

Search completed: April 22, 2004, 12:32:25
Job time : 58 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 22, 2004, 12:29:47 ; Search time 40 seconds
(without alignments)
875.563 Million cell updates/sec

Title: US-09-978-189-370

Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLAAL.....TXRFIKYINAWNEKRYVEE 111

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTREMBL_25.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_muc.*
- 8: sp_organelle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_todent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_virus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	582	99.1	111	4 Q9NS21	Q9NS21 homo sapien
2	507	86.4	99	11 Q8K453	Q8K453 rattus norv
3	506	86.2	99	11 Q9JH7	Q9JH7 mus musculus
4	488	83.1	95	11 Q91V02	Q91V02 mus musculus
5	335	57.1	100	13 Q9D64	Q9D64 brachydanio
6	322.5	54.9	98	13 Q9DGL8	Q9DGL8 rattus norv
7	143.5	24.4	101	11 Q9EP62	Q9EP62 rattus norv
8	128.5	21.9	108	6 Q28724	Q28724 oryctolagus
9	128	21.8	100	11 Q91ZK9	Q91ZK9 sigmodon hi
10	126.5	21.6	101	11 Q91Z64	Q91Z64 sigmodon hi
11	121.5	20.7	107	6 Q8HX24	Q8HX24 macaca mula
12	119.5	20.4	107	6 Q8HX23	Q8HX23 macaca mula
13	100	17.0	95	13 Q7T0B3	Q7T0B3 ictalurus p
14	97.5	16.6	97	13 Q98Q2	Q98Q2 oncorhynch
15	94.5	16.1	97	13 Q7BX73	Q7BX73 oncorhynch
16	94.5	16.1	113	6 Q8M1N2	Q8M1N2 equus cabal

17	93.5	15.9	126	11 Q99J60	Q99J60 mus musculus
18	89.5	15.2	97	13 Q8QFP5	Q8QFP5 cyprinus ca
19	89.5	15.2	100	13 Q8AXP4	Q8AXP4 chimaera ph
20	89.5	15.2	126	11 Q8C9J0	Q8C9J0 mus musculus
21	89	15.2	95	13 Q7T0B4	Q7T0B4 ictalurus p
22	89	15.2	113	11 Q9EQ15	Q9EQ15 mus musculus
23	88	15.0	95	13 Q7T0B2	Q7T0B2 ictalurus f
24	88	15.0	109	13 Q90Y59	Q90Y59 paralichthy
25	87.5	14.9	111	11 Q9ME0	Q9ME0 rattus norv
26	87	14.8	98	13 Q8QGV8	Q8QGV8 paralichthy
27	86.5	14.7	104	13 Q7J912	Q7J912 gallus gall
28	86	14.7	93	13 Q9PTF8	Q9PTF8 brachydanio
29	84.5	14.4	116	11 Q91ZB2	Q91ZB2 mus musculus
30	84.5	14.4	117	11 Q8C9B8	Q8C9B8 mus musculus
31	83.5	14.2	102	6 Q9SMZ7	Q9SMZ7 ovie aries
32	83.5	14.2	102	6 Q867B3	Q867B3 capra hircu
33	83.5	14.2	117	12 Q68398	Q68398 human cytom
34	83	14.1	94	6 Q8M1Z0	Q8M1Z0 macaca mula
35	81.5	13.9	101	13 Q8UW91	Q8UW91 triakis scy
36	80.5	13.7	98	6 Q8M1Z1	Q8M1Z1 macaca mula
37	80.5	13.7	98	6 Q865F5	Q865F5 macaca neme
38	79.5	13.5	101	6 Q7YR85	Q7YR85 tursiops tr
39	77.5	13.2	100	13 Q8QGB7	Q8QGB7 oncorhynch
40	77.5	13.2	125	11 Q8K4B1	Q8K4B1 rattus norv
41	77	13.1	111	13 Q8AXZ1	Q8AXZ1 ictalurus p
42	76.5	13.0	59	6 Q62764	Q62764 equus cabal
43	76	12.9	98	11 Q9ERB1	Q9ERB1 mesocricetu
44	76	12.9	98	13 Q7T1P1	Q7T1P1 cyprinus ca
45	76	12.9	677	5 Q18209	Q18209 caenorhabdi

ALIGNMENTS

RESULT 1

Q9NS21	PRELIMINARY;	PRT;	111 AA.
ID Q9NS21			
AC Q9NS21	01-OCT-2000 (TREMELrel. 15, Created)		
DT 01-OCT-2000	(TREMELrel. 15, Last sequence update)		
DE 01-OCT-2000	(TREMELrel. 25, Last annotation update)		
GN MIP-2 GAMMA.			
OS Homo sapiens (Human).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX NCBI_TaxID=9606;			
RN [1]			
RP SEQUENCE FROM N.A.			
RX MEDLINE=20405642; PubMed=10946286;			
RA Cao X., Zhang W., Wan T., He L., Chen T., Yuan Z., Ma S., Yu Y.,			
RA Chen G.,			
RT "Molecular cloning and characterization of a novel CXCR chemokine			
RT macrophage inflammatory protein-2gamma chemoattractant for human			
RL J. Immunol. 165:2588-2595 (2000).			
DR EMBL; AF106911; AAF78449.1; -			
DR JGI; JG0182; JG0182.			
DR GO; GO:0005576; C:extracellular; IEA.			
DR GO; GO:0008009; F:chemokine activity; IEA.			
DR GO; GO:0006955; P:immune response; IEA.			
DR InterPro; IPR001811; Chemokine_IL8.			
DR Pfam; PF00048; IL8; 1.			
SQ SEQUENCE 111 AA; 13126 MW; C9A18B3178ACAF74 CRC64;			

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1e-58;

Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAALLLLLLALYATVDGSKCKSRGPKIRYSDVKLEMPKY 60

Db 1 MSLLPRAPPVSMRLAALLLLLLALYATVDGSKCKSRGPKIRYSDVKLEMPKY 60

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QY 61 PHCEKXWVITTSVSRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111
DB 61 PHCEKXWVITTSVSRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111

RESULT 2
Q8K453 PRELIMINARY; PRT; 99 AA.
ID Q8K453
AC Q8K453
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)
DE BRAK.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar;
RA Han G.D., Koike H., Shimizu F., Kawachi H.;
RT "Rat homolog of breast and kidney.";
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
EMBL; AF488348; AAM74057.1; -
DR GO; GO:000576; C:extracellular; IEA.
DR GO; GO:000809; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
SQ SEQUENCE 99 AA; 11730 MW; 972C06336C7F46D6 CRC64;

Query Match 86.4%; Score 507; DB 11; Length 99;
Best Local Similarity 96.0%; Pred. No. 3.4e-50;
Matches 95; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
DB 1 MRLAAALLLLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60

QY 73 KSVSRYGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111
DB 61 KSVSRYGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 99

RESULT 3
Q9JHH7 PRELIMINARY; PRT; 99 AA.
ID Q9JHH7
AC Q9JHH7
DT 01-OCT-2000 (T-EMBLrel. 15, Created)
DT 01-OCT-2000 (T-EMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)
DE B cell and monocyte-activating chemokine precursor (Brain cDNA, clone
DE MNCB-6413, similar to Mus musculus kidney-expressed chemokine CXK
DE (Kec) mRNA) (Kec) (1200006123Rik protein) (Small inducible cytokine
DE subfamily B).
GN CXCL14 OR SCYB14 OR BMAC OR 1200006123RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/CBYJ;
RA Sleenan M.A., Fraser J.K., Murison J.G., Kelly S.L., Prestidge R.,
RA Watson J.D., Kumble K.D.;
RT "B cell and monocyte-activating chemokine (EMAC), a novel non-ELR
RT alpha chemokine."
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL;
RA Osada N., Kusuda J., Tanuma R., Ito A., Hirata M., Sugano S.,
RA Hashimoto K.;

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RT "isolation of full-length cDNA clones from mouse brain cDNA library
RT made by oligo-capping method.";
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryo, and Lung;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,
RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl L., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Stauble F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RN [4]
RP Nature 409:685-690(2001).
RC SEQUENCE FROM N.A.
RX STRAIN=C57BL/6J; TISSUE=Body;
MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR EMBL; AF144754; AAF66694.1; -
DR EMBL; AB041614; BAA95097.1; -
DR EMBL; AK014351; BAB29292.1; -
DR EMBL; AK004615; BAB23411.1; -
DR EMBL; AK076112; BAC36192.1; -
DR MGD; MGI:1888514; Cxcl14.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
DR KW Signal.
FT SIGNAL 1 23 POTENTIAL.
FT CHAIN 24 99 B CELL AND MONOCYTE-ACTIVATING
FT CHAIN 24 99 CHEMOKINE.
SQ SEQUENCE 99 AA; 11716 MW; 97352591FF7F46D5 CRC64;

Query Match 86.2%; Score 506; DB 11; Length 99;
Best Local Similarity 94.9%; Pred. No. 4.4e-50;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
DB 1 MRLAAALLLLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60

QY 73 KSVSRYGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111
DB 61 KSVSRYGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 99

RESULT 4
Q91V02 PRELIMINARY; PRT; 95 AA.
ID Q91V02
AC Q91V02
DT 01-DEC-2001 (T-EMBLrel. 19, Created)
DT 01-DEC-2001 (T-EMBLrel. 19, Last sequence update)
DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)

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DB 63 NVSRFKGQBYCLHPLQLQSTRNLVKWFKIWKDKHRTFE 99

RESULT 6

Q9DGL8 PRELIMINARY; PRT; 98 AA.

ID Q9DGL8; AC Q9DGL8; 01-MAR-2001 (TReMBLrel. 16, Created)

DT 01-MAR-2001 (TReMBLrel. 16, Last sequence update)

DT 01-MAR-2001 (TReMBLrel. 16, Last sequence update)

DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)

DE Jun-suppressed chemokine.

DE JSC.

OS Gallus gallus (Chicken).

OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;

OC Gallus.

OX NCBI_TaxID=9031;

[1]

SEQUENCE FROM N.A.

RN TISSUE=Fibroblast;

RC Rn Hartl M., Bister K.;

RA "Suppression of genes in jun-transformed avian fibroblasts.";

RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.

RT EMBL; AF285876; AAG00529.1; -

DR GO; GO:0005576; C:extracellular; IEA.

DR GO; GO:0008009; F:chemokine activity; IEA.

DR GO; GO:0008955; P:immune response; IEA.

DR InterPro; IPR001811; Chemokine_IL8.

SQ SEQUENCE 98 AA; 11564 MW; 30D98E540ADD35B CRC64;

Query Match 54.9%; Score 322.5; DB 13; Length 98;

Best Local Similarity 60.0%; Pred. No. 4.1e-29;

Matches 60; Conservative 19; Mismatches 18; Indels 3; Gaps 2

QY 13 MLLAAALLLLLALYARVDSGKCKSRKPKTRYSDVKLEMKPKYPHCEKXVLT 72

DB 1 MKLLTAAULLLVVIACLASAGVCKCKSRKPKIRFSNVRLKIRPYPCVEEMIIVL 60

QY 73 KSVSYRG-QEHLHPKLQSKRFIKWYNWNERVYEE 111

DB 61 --WTKVGEQHQCLNPKQNTVLLKQYRWVWKEGRVYEE 98

SEQUENCE 98 AA; 11564 MW; 30D98E540ADD35B CRC64;

Query Match 54.9%; Score 322.5; DB 13; Length 98;

Best Local Similarity 60.0%; Pred. No. 4.1e-29;

Matches 60; Conservative 19; Mismatches 18; Indels 3; Gaps 2

QY 13 MLLAAALLLLLALYARVDSGKCKSRKPKTRYSDVKLEMKPKYPHCEKXVLT 72

DB 1 MKLLTAAULLLVVIACLASAGVCKCKSRKPKIRFSNVRLKIRPYPCVEEMIIVL 60

QY 73 KSVSYRG-QEHLHPKLQSKRFIKWYNWNERVYEE 111

DB 61 --WTKVGEQHQCLNPKQNTVLLKQYRWVWKEGRVYEE 98

RESULT 7

Q9EP62 PRELIMINARY; PRT; 101 AA.

ID Q9EP62; AC Q9EP62; 01-MAR-2001 (TReMBLrel. 16, Created)

DT 01-MAR-2001 (TReMBLrel. 16, Last sequence update)

DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)

DE CINC-2 alpha precursor.

OS Rattus norvegicus (Rat).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_TaxID=10116;

[1]

SEQUENCE FROM N.A.

RN STRAIN=Wistar; TISSUE=Peritoneal cavity;

RC MEDLINE=98236997; PubMed=9576061;

RA Shibata F., Konishi K., Nakagawa H.;

RT "gene structure, cDNA cloning, and expression of rat cytokine-induced

RT neutrophil chemoattractant 2 (GRO/CINC-2) gene.";

RL Cytokine 10:169-174(1998).

DR EMBL; D87927; BAB12280.1; -

DR EMBL; D87926; BAB12279.1; -

DR HSSP; P10889; 1MI2.

DR GO; GO:0005576; C:extracellular; IEA.

DR GO; GO:0008009; F:chemokine activity; IEA.

DR GO; GO:0008955; P:immune response; IEA.

DR InterPro; IPR001811; Chemokine_IL8.

DR InterPro; IPR001089; CXCL chemokine-smll.

DR Pfam; PFC0048; IL8; 1.

DR PRINTS; PRO0437; SMALLCYTKXC.


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DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
DR KW SIGNAL.
DR FT CHAIN 1 32 POTENTIAL.
DR FT CHAIN 33 101 CINC-2 ALPHA.
DR SQ SEQUENCE 101 AA; 11109 MW; D949D5712FE30909 CRC64;

Query Match 24.4%; Score 143.5; DB 11; Length 101;
Best Local Similarity 35.1%; Pred. No. 1.3e-08;
Matches 34; Conservative 19; Mismatches 31; Indels 13; Gaps 3;

QY 8 APVSVRLAAALLLLLLALVTARVDGS-----KCKSRKGPKIRYSDVKLEMKPKY 60
DB 2 APP-TRRLINAAALLLLLLALMATSHQPSGTVVARELRQCCLKILPRVDFENIQSLTVP 60
QY 61 PCECEKMWIITTKSVSRVYGOEHLHPKLOSTKRFK 97
DB 61 PACTQTEVATIKD-----GQEVCLNFOAPRLQKIIQ 92

RESULT 8
Q28724 PRELIMINARY; PRT; 108 AA.
AC Q28724;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-AUG-1999 (TrEMBLrel. 11, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE GRO (permeability factor 2).
DE RPF2.
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
ON NCBI_TaxID=9986;
OX [1]
RC SEQUENCE FROM N.A.
RP STRAIN=NEW ZEALAND WHITE;
RA Toshimura T.; Modi W.S.;
RT "Isolation of novel GRO genes, and a phylogenetic analysis of the CXC
RT chemokine subfamily in mammals.";
RL Submitted (MAR-1997) to the EMBL/GenBank/DBJ databases.
[2]
SEQUENCE OF 43-108 FROM N.A.
RP STRAIN=NEW ZEALAND WHITE;
RC MEDLINE=95129889; PubMed=7828903;
RX Johnson M.C.; Goodman R.B. II; Kajikawa O.; Wong V.A.; Mongovin S.M.,
RA Martin T.R.;
RT "Cloning of two rabbit GRO homologues and their expression in alveolar
RT macrophages.";
RL Gene 151:337-338(1994).
DR EMBL; U95808; AAB93924.1; -
DR EMBL; L28933; AAB66975.1; -
DR PIR; S17507; S17507.
DR KSSP; P19875; IQNK.
DR GO; GO:0003576; Cxcrtracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine IL8.
DR InterPro; IPR001089; CXC_chmkine_sm1.
DR Pfam; PFC00048; IL8; 1.
DR PRINTS; PR00437; SMALLCYTKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
DR SQ SEQUENCE 108 AA; 11261 MW; 9C278041FC7A5BAD CRC64;

Query Match 21.9%; Score 128.5; DB 6; Length 108;
Best Local Similarity 33.3%; Pred. No. 7e-07;
Matches 32; Conservative 15; Mismatches 38; Indels 11; Gaps 2;

QY 8 APVSVRLAAALLLLLLALVTARVDGS-----KCKSRKGPKIRYSDVKLEMKPKY 61
DB 9 AAPSGPFRFLRTAMLLLLLLLAAASRAAGAAALTELRCQCLQTVOGHKLKSLKVLSPGP 68
QY 62 HCEENXWVIITTKSVSRVYGOEHLHPKLOSTKRFK 97

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DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00437; SMALLCYTKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
SQ SEQUENCE 101 AA; 11018 MW; FCIC3F3GABCA2A443 CRC64;

Query Match      21.6%; Score 126.5; DB 11; Length 101;
Best Local Similarity 31.2%; Pred. No. 1.1e-06;
Matches 30; Conservative 21; Mismatches 34; Indels 11; Gaps 2;

QY 8 APPVSMRLAAALLLLLLLALYARVDGS-----KKCSKRGPKIRYSDVKKLEMKPKYP 61
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Db 2 APTSLFSLRANLLELLLVATHRQTGAVLATLRQCQVKTLRIDFKTIQSLKVTTPGP 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 62 HCEKMWIITKSVSRVSGDGHCLHPKQSTKRFK 97
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 62 HCTQTEVIATLKN-----GQDVCINPAPLVQKIIQ 92
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RESULT 11
Q8HXZ4 PRELIMINARY; PRT; 107 AA.
AC Q8HXZ4;
DT 01-MAR-2003 (TRENBLrel. 23, Created)
DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)
DE Chemokine CXCL1/GRO-alpha
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Basu S., Schaefer T.M., Ghosh M., Fuller C.L., Reinhart T.A.;
RT "Comprehensive cloning and sequencing reveals evolutionary
RL conservation among all groups of rhesus macaque chemokines."
DR EMBL; AF449280; AAN76084.1; -.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001089; CXC_chemkine_IL8.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00437; SMALLCYTKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
SQ SEQUENCE 107 AA; 11355 MW; CDCC2F86449923C4 CRC64;

Query Match      20.7%; Score 121.5; DB 6; Length 107;
Best Local Similarity 33.3%; Pred. No. 4.4e-06;
Matches 32; Conservative 15; Mismatches 38; Indels 11; Gaps 2;

QY 8 APPVSMRLAAALLLLLLLALYARVDGS-----KKCSKRGPKIRYSDVKKLEMKPKYP 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 8 AAPSPRELQVALLLLLLLVATGRAGAVVTELRQCQCLQTLQGIHPKNIQSVVYKAPGP 67
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 62 HCEKMWIITKSVSRVSGDGHCLHPKQSTKRFK 97
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 68 HCAETEVIATLKN-----GQACLNPPSPMVQKIIK 98
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 12
Q8HXZ3 PRELIMINARY; PRT; 107 AA.
AC Q8HXZ3;
DT 01-MAR-2003 (TRENBLrel. 23, Created)
DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)
DE Chemokine CXCL3/GRO-gamma.
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Basu S., Schaefer T.M., Ghosh M., Fuller C.L., Reinhart T.A.;
RT "Comprehensive cloning and sequencing reveals evolutionary
RL conservation among all groups of rhesus macaque chemokines."
DR EMBL; AF449282; AAN76085.1; -.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001081; Chemokine_IL8.
DR InterPro; IPR001089; CXC_chemkine_sm1.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00437; SMALLCYTKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
SQ SEQUENCE 107 AA; 11294 MW; B5999B36C523EBD CRC64;

Query Match      20.4%; Score 119.5; DB 6; Length 107;
Best Local Similarity 33.3%; Pred. No. 7.4e-06;
Matches 32; Conservative 16; Mismatches 37; Indels 11; Gaps 2;

QY 8 APPVSMRLAAALLLLLLLALYARVDGS-----KKCSKRGPKIRYSDVKKLEMKPKYP 61
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   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 62 HCEKMWIITKSVSRVSGDGHCLHPKQSTKRFK 97
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Db 68 HCAETEVIATLKN-----GQACLNPPSPMVQKIIK 98
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RESULT 13
Q7T0B3 PRELIMINARY; PRT; 95 AA.
AC Q7T0B3;
DT 01-OCT-2003 (TRENBLrel. 25, Created)
DT 01-OCT-2003 (TRENBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Chemokine.
GN CXCL10.
OS Ictalurus punctatus (Channel catfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Siluriformes;
OC Ictaluridae; Ictalurus.
OX NCBI_TaxID=7998;
RN [1]
RP SEQUENCE FROM N.A.
RA Baoprasertkul P., Peatman E., Kucuktas H., Li P., He C., Chen L.,
RA Simmons M., Liu Z.;
RT "Differential Expression Profiles of Chemokine CXCL10 in Resistant and
RL Susceptible Catfish after Infection of Edwardsiella ictaluri."
DR EMBL; AY335950; AAO01586.1; -.
DR EMBL; AY335950; AAO01586.1; -.
SQ SEQUENCE 95 AA; 10340 MW; EB5CF92D3070DD58 CRC64;

Query Match      17.0%; Score 100; DB 13; Length 95;
Best Local Similarity 31.9%; Pred. No. 0.0011;
Matches 29; Conservative 17; Mismatches 33; Indels 12; Gaps 4;

QY 19 ALLLLLYATRVDSGSKCSKRGPK---IRYSDVKKLEMKPKYPHCEKMWIITKSV 75
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Db 11 ACLLIHVQQAQTSVRRCLC--QGPAANGVRLQRIKIEIHPASATCENKEIIVTLKN- 67
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 76 SRYRGOEHLHPKQSTKRFKIKWYNWNEKR 106
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 68 --GAGKKCLNPESEFTKVI---TAALEKR 92
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RESULT 14
Q98TQ2

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ID Q98T02 PRELIMINARY; PRT; 97 AA.
AC Q98T02;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Interleukin-8 (Putative cxc chemokine precursor).
GN IL-8.
OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=8022;
RN [1]
RP SEQUENCE FROM N.A.
RA Laing K.J., Zou J.J., Hirono I., Aoki T., Secombes C.J.;
RT "Identification and analysis of the interleukin 8 molecule in rainbow
trout Oncorhynchus mykiss.";
RL Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Sangrador-Vegas A., Smith T.J.;
RT "Molecular cloning of a rainbow trout (Oncorhynchus mykiss) CXC
chemokine by use of suppression subtractive hybridization.";
RL Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Laing K.J., Zou J.J., Hirono I., Aoki T., Secombes C.J.;
RT "Identification and analysis of the interleukin 8 molecule in rainbow
trout Oncorhynchus mykiss.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22642999; PubMed=12695860;
RA Fujiki K., Gauley J., Bols N.C., Dixon B.;
RT "Genomic cloning of novel isotypes of the rainbow trout interleukin-
8.";
RL Immunogenetics 55:126-131(2003).
DR EMBL; AJ279069; CAC33585.1; -
DR EMBL; AJ308335; CAC45061.1; -
DR EMBL; AJ310565; CAC83945.1; -
DR EMBL; AJ160982; AAO25641.1; -
DR EMBL; AJ160983; AAO25642.1; -
DR EMBL; AJ160984; AAO25643.1; -
DR EMBL; AJ160985; AAO25644.1; -
DR EMBL; AJ160986; AAO25645.1; -
DR HSP; P13875; IONK.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
DR Pfam; PF00048; IL8; 1.
DR SMART; SM00199; SCY; 1.
KW Signal.
FT SIGNAL
FT CHAIN
SQ SEQUENCE 97 AA; 10777 MW; 4EEB35A4EF9DACE2 CRC64;

Query Match 16.6%; Score 97.5; DB 13; Length 97;
Best Local Similarity 34.0%; Pred. No. 0.0022;
Matches 34; Conservative 18; Mismatches 25; Indels 23; Gaps 6;

QY 11 VSMRLAAALLLLALLYARVDGS-----KCKC-----SRGPKIRYSDVKKLEMKP 58
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QY 59 KYPHCEKXVIIT-TKSVSRVYRGQEHCLPKLQSTKRFK 97
Db 56 PSSHCRDTEIIATLSKS-----GQEICLDVSAPWVKVIE 90

Search completed: April 22, 2004, 12:33:47
Job time : 42 secs

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RESULT 15
Q7SX73

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 22, 2004, 12:31:18 ; Search time 22 Seconds
(without alignments)
260.476 Million cell updates/sec

Title: US-09-978-189-370
Perfect score: 587
Sequence: 1 MSLLPRAPPVSMRLAAAL.....TKRKWYNAWEKRRVYES 111

Scoring table: BLOSUM62
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Searched: 389414 segs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	582	99.1	111	2	US-08-825-556A-2
2	582	99.1	111	4	US-09-238-184-2
3	522	88.9	99	2	US-08-825-556A-3
4	522	88.9	99	4	US-09-238-184-3
5	539	86.7	95	3	US-09-188-930-344
6	539	86.7	95	4	US-09-188-930-344
7	509	86.7	95	4	US-09-312-283C-344
8	506	86.2	99	3	US-09-188-930-340
9	506	86.2	99	4	US-09-312-283C-394
10	506	86.2	99	4	US-09-312-283C-417
11	506	86.2	99	4	US-09-312-283C-417
12	504.5	85.9	98	4	US-09-312-283C-418
13	438	72.9	77	3	US-09-188-930-346
14	438	72.9	77	4	US-09-188-930-346
15	428	72.9	77	3	US-09-312-283C-346
16	428	72.9	77	4	US-09-312-283C-346
17	424	72.2	77	4	US-09-724-864-70
18	424	72.2	77	4	US-09-312-283C-345
19	414	70.5	75	4	US-09-177-304-3
20	298	50.8	133	3	US-09-188-930-157
21	298	50.8	133	4	US-09-312-283C-157
22	143.5	24.4	98	2	US-08-825-556A-4
23	143.5	24.4	98	4	US-09-238-184-4
24	143.5	24.4	100	4	US-08-679-493A-146
25	138	23.5	100	3	US-08-476-376-2
26	138	23.5	100	4	US-09-312-283C-423
27	128.5	21.9	107	1	US-08-352-324A-4

28 128.5 21.9 107 2 US-08-862-607-4 Sequence 4, Appli
29 128.5 21.9 107 2 US-08-468-819-6 Sequence 6, Appli
30 128.5 21.9 107 3 US-09-203-235-4 Sequence 4, Appli
31 128.5 21.9 107 4 US-09-213-383-6 Sequence 6, Appli
32 128.5 21.9 107 5 PCT-US95-16144-4 Sequence 4, Appli
33 117.5 20.0 107 1 US-08-352-324A-7 Sequence 7, Appli
34 117.5 20.0 107 2 US-08-862-607-7 Sequence 7, Appli
35 117.5 20.0 107 2 US-08-468-819-5 Sequence 5, Appli
36 117.5 20.0 107 3 US-09-203-235-7 Sequence 7, Appli
37 117.5 20.0 107 4 US-09-213-383-5 Sequence 5, Appli
38 117.5 20.0 107 5 PCT-US95-16144-7 Sequence 7, Appli
39 113 19.3 71 2 US-08-812-003-9 Sequence 9, Appli
40 111 18.9 96 4 US-08-649-006A-7 Sequence 7, Appli
41 111 18.9 96 4 US-09-771-023-9 Sequence 9, Appli
42 111 18.9 96 4 US-08-312-283C-424 Sequence 424, App
43 109 18.6 106 4 US-08-679-493A-148 Sequence 148, App
44 107 18.2 106 1 US-08-352-324A-5 Sequence 5, Appli
45 107 18.2 106 2 US-08-862-607-5 Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-08-825-556A-2
; Sequence 2, Application US/08825556A
; Patent No. 5910431
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556A
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-825-556A-2

Query Match 99.1%; Score 582; DB 2; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0;
QY 1 MSLLPRAPPVSMRLAAALLLLLLALYTRVDGSKCKRGKPKIRYSDVKLEMKRY 60

Db 1 MSLLPRAPPVSMRLAAALLLLLYTARVDGSKCKSRKGPRIYSDVKLEMKPKY 60
QY 61 PCECEKWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111
Db 61 PCECEKWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

RESULT 2

US-09-238-184-2
; Sequence 2, Application US/09238184
; Patent No. 6479633

GENERAL INFORMATION:

; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE: 19-MAR-1996

CLASSIFICATION:

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001

TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-238-184-2

Query Match 99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.4e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLLPRAPPVSMRLAAALLLLLYTARVDGSKCKSRKGPRIYSDVKLEMKPKY 60
Db 1 MSLLPRAPPVSMRLAAALLLLLYTARVDGSKCKSRKGPRIYSDVKLEMKPKY 60

QY 61 PCECEKWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111
Db 61 PCECEKWIITTKSVRYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

RESULT 3

US-08-825-556A-3
; Sequence 3, Application US/08825556A
; Patent No. 5910431

GENERAL INFORMATION:

; APPLICANT: Ni, Jian

; APPLICANT: Gentz, Reiner L.

; APPLICANT: Su, Jeffrey Y.

; APPLICANT: Li, Haodong

; TITLE OF INVENTION: Chemokine Alpha 2

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.

; STREET: 1100 New York Ave., Suite 600

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-2934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA

; ZIP: 20005-2934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/825,556A

; FILING DATE: 19-MAR-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/013,653

; FILING DATE: 19-MAR-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Steffe, Eric K.

; REGISTRATION NUMBER: 36,688

; REFERENCE/DOCKET NUMBER: 1488.0850001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600

; TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 99 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-825-556A-3

Query Match 88.9%; Score 522; DB 2; Length 99;
Best Local Similarity 99.0%; Pred. No. 2.6e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLYTARVDGSKCKSRKGPRIYSDVKLEMKPKYHCEERKWIIT 72
Db 1 MRLAAALLLLLYTARVDGSKCKSRKGPRIYSDVKLEMKPKYHCEERKWIIT 60

QY 73 KSVSRVYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111
Db 61 KSVSRVYRGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 99

RESULT 4

US-09-238-184-3
; Sequence 3, Application US/09238184
; Patent No. 6479633

GENERAL INFORMATION:

; APPLICANT: Ni, Jian

; APPLICANT: Gentz, Reiner L.

; APPLICANT: Su, Jeffrey Y.

; APPLICANT: Li, Haodong

; TITLE OF INVENTION: Chemokine Alpha 2

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.

; STREET: 1100 New York Ave., Suite 600

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-2934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICANT: Murison, James D.
FILING DATE: 19-MAR-1997
PRIORITY DATE: 19-MAR-1996
CLASSIFICATION: US/09/238,184
PRIORITY APPLICATION DATA:
APPLICANT: Murison, James D.
FILING DATE: 19-MAR-1997
PRIORITY DATE: 19-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0850001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2500
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 99 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-238-184-3

Query Match 88.7%; Score 522; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 2.6e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 MLLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 72
DB 1 MLLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 60
QY 73 KSVSRYGQEHLPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 KSVSRYGQEHLPKLOSTKRFIKWYNANNEKRRVYEE 99

RESULT 5

US-09-188-930-344
Sequence 344, Application US/09188930A
Patent No. 6150502

GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James G.
TITLE OF INVENTION: Compositions Isolated From Skin Cells
FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 344
LENGTH: 95
TYPE: PRT
ORGANISM: Mouse
US-09-188-930-344

Query Match 86.7%; Score 509; DB 3; Length 95;
Best Local Similarity 100.0%; Pred. No. 9.5e-55;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 76
DB 1 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 60
QY 77 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 95

DB 61 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 95

RESULT 6

US-09-724-864-68
Sequence 68, Application US/09724864
Patent No. 6380362

GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Murison, James G.
TITLE OF INVENTION: Polynucleotides, polypeptides expressed
FILE REFERENCE: 11000.1050U1
CURRENT APPLICATION NUMBER: US/09/724,864
CURRENT FILING DATE: 2000-11-28
PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 68
LENGTH: 95
TYPE: PRT
ORGANISM: Human
US-09-724-864-68

Query Match 86.7%; Score 509; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 9.5e-55;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 76
DB 1 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 60
QY 77 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 95

RESULT 7

US-09-312-283C-344
Sequence 344, Application US/09312283C
Patent No. 6573095

GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James G.
APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated from Skin Cells
FILE REFERENCE: 11000.1011c2
CURRENT APPLICATION NUMBER: US/09/312,283C
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 425
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 344
LENGTH: 95
TYPE: PRT
ORGANISM: Mouse
US-09-312-283C-344

Query Match 86.7%; Score 509; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 9.5e-55;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 76
DB 1 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERWIIITTSVS 60
QY 77 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 RYRQEHLPKLOSTKRFIKWYNANNEKRRVYEE 95

```
RESULT 8
US-09-188-930-340
; Sequence 340, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Chrust, Rene
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT FILING DATE: 1998-11-09
; CURRENT APPLICATION NUMBER: US/09/188.930A
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 340
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-188-930-340

Query Match      86.2%; Score 506; DB 3; Length 99;
Best Local Similarity 94.9%; Pred. No. 2.3e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
Db 1 MRLAAALLLLLLLALCASRVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60
QY 73 KSVSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 111
Db 61 KWSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 99

RESULT 9
US-09-312-283C-340
; Sequence 340, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Chrust, Rene
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT FILING DATE: 1999-05-14
; CURRENT APPLICATION NUMBER: US/09/312.283C
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 340
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-340

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 2.3e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
Db 1 MRLAAALLLLLLLALCASRVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60
QY 73 KSVSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 111
Db 61 KWSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 99

RESULT 10
US-09-312-283C-394
; Sequence 394, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Chrust, Rene
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312.283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 394
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-394

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 2.3e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
Db 1 MRLAAALLLLLLLALCASRVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60
QY 73 KSVSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 111
Db 61 KWSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 99

RESULT 11
US-09-312-283C-417
; Sequence 417, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Chrust, Rene
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312.283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 417
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-417

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 2.3e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 MRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72
Db 1 MRLAAALLLLLLLALCASRVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60
QY 73 KSVSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 111
Db 61 KWSRVGOEHLCHLPKLOSTKRFIKWYNNANNEKRVYEE 99
```


Db 61 KSMRYRGQEHCHLHPKLOSTKRFIKWYNAWNEKRRVYEE 99

RESULT 12

US-09-312-283C-418
; Sequence 418, Application US/09312283C
; Patent No. 6573095

GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.

APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use

FILE REFERENCE: 11000.1011c2

CURRENT APPLICATION NUMBER: US/09/312,283C

CURRENT FILING DATE: 1999-05-14

NUMBER OF SEQ ID NOS: 425

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 418

LENGTH: 98

TYPE: PRT

ORGANISM: Human

US-09-312-283C-418

Query Match

Best Local Similarity 85.9%; Score 504.5; DB 4; Length 98;

Matches 97; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 13 MRLLAAALLLLALYARVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72

Db 1 MRLLAAALLLLALYARVDSKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 59

QY 73 KSVRYRGQEHCHLHPKLOSTKRFIKWYNAWNEKRRVYEE 111

Db 60 KSVRYRGQEHCHLHPKLOSTKRFIKWYNAWNEKRRVYEE 98

RESULT 13

US-09-188-930-346
; Sequence 346, Application US/09188930A
; Patent No. 6150502

GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene

APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use

FILE REFERENCE: 11000.1011c1

CURRENT APPLICATION NUMBER: US/09/188,930A

CURRENT FILING DATE: 1998-11-09

NUMBER OF SEQ ID NOS: 348

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 346

LENGTH: 77

TYPE: PRT

ORGANISM: Mouse

US-09-188-930-346

Query Match

Best Local Similarity 72.9%; Score 428; DB 3; Length 77;

Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 94

Db 1 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 60

QY 95 FIKWYNAWNEKRRVYEE 111

Db 61 FIKWYNAWNEKRRVYEE 77

Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 14

US-09-724-864-72
; Sequence 72, Application US/09724864
; Patent No. 6380362

GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.

APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.

FILE REFERENCE: 11000.1050U1

CURRENT APPLICATION NUMBER: US/09/724,864

CURRENT FILING DATE: 2000-11-28

PRIOR FILING DATE: 1999-12-23

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 72

LENGTH: 77

TYPE: PRT

ORGANISM: Human

US-09-724-864-72

Query Match

Best Local Similarity 72.9%; Score 428; DB 4; Length 77;

Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 94

Db 1 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 60

QY 95 FIKWYNAWNEKRRVYEE 111

Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 15

US-09-312-283C-346
; Sequence 346, Application US/09312283C
; Patent No. 6573095

GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene

APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use

FILE REFERENCE: 11000.1011c2

CURRENT APPLICATION NUMBER: US/09/312,283C

CURRENT FILING DATE: 1999-05-14

NUMBER OF SEQ ID NOS: 425

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 346

LENGTH: 77

TYPE: PRT

ORGANISM: Mouse

US-09-312-283C-346

Query Match

Best Local Similarity 72.9%; Score 428; DB 4; Length 77;

Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 94

Db 1 SKCKSRGPKIRYSDVKLEMKPKYPHCEKRWIITTKSVRYRGQEHCHLHPKLOSTKR 60

QY 95 FIKWYNAWNEKRRVYEE 111

Db 61 FIKWYNAWNEKRRVYEE 77

Search completed: April 22, 2004, 12:34:55
Job time : 23 secs